#### RIOCAN – WINDFIELDS FARM BLOCK C2: RFP – ADDENDUM N0.03

August 1st 2023



#### RIOCAN – WINDFIELDS FARM BLOCK C2: RFP – ADDENDUM NO.03

ADDENDUM NO.3 ISSUED: August 1st, 2023

- 1. Is there a spec for the retaining wall?
  - Response: Refer to Turner Fleischer Architects Inc. Addendum No.3 dated August 1, 2023
- 2. In regards to Addendum No.1 it is noted to include a dry sprinkler in the garbage room, however no details were provided. Please provide drawings and specifications for this scope to price
  - Response: Refer to Turner Fleischer Architects Inc. Addendum No.3 dated August 1, 2023
- 3. The bid closing date has been extended to August 10, 2023.

#### **QUERIES DURING THE BID**

The contractor will base their bid on all drawings and specification documents. It is the contractor's responsibility to obtain clarification of any terms, conditions or technical requirements contained in documents/drawings.

Any questions or requests for clarification during the solicitation period must be submitted in writing to mbertagnolli@riocan.com, by 12:00pm on July 25th, 2023. Inquiries relating to this solicitation are to be directed ONLY to the contact listed. Non-compliance with this condition during the solicitation period may, for that reason alone, result in the disqualification of the contractor.

#### RFP SUBMISSION DEADLINE

Please submit your proposal no later than August 10<sup>th</sup>, 2023 at 5:00pm EST.

Inquiries and Proposals shall be submitted by e-mail to the contact below:

Windfields Block C2

Attn: Melea Bertagnolli

mbertagnolli@riocan.com

COORDINATOR, DEVELOPMENT CONSTRUCTION

RioCan Yonge Eglinton Centre, 2300 Yonge St, Suite 500

Box 2386 | Toronto, ON M4P 1E4

#### Turner Fleischer Architects Inc.

67 Lesmill Road Toronto ON, M3B 2T8 T 416 425 2222 F 416 425 6717 info@turnerfleischer.com



Addendum

Project Name: Windfields Block C2 Date: 2023-08-01

Address: Winchester Road & Simcoe Street, Addendum No.: 03

Oshawa, ON

**Proj. No.:** 08.118CS3

The following information supplements and/or supersedes the bid documents issued on July 17<sup>th</sup>, 2023.

This Addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject bidder to disqualification.

#### Response to RFI:

- 1.01 Is there a spec for the retaining wall? I just want to make sure everyone prices the same product.

  Response: Provide Grande Wall by Permacon for the retaining wall.
- 1.02 In regards to Addendum No.1 it is noted to include a dry sprinkler in the garbage room, however no details were provided. Please provide drawings and specifications for this scope to price accurately.

  Response: Revised mechanical drawings with dry sprinkler details attached.

#### **Revisions to Architectural Drawings:**

#### **Building C5**

- 1.03 Revise Drawing A002 Site Plan, and A005 EV Charging Station Base details
  - a) Relocation of signage, bollards and site furniture (i,e, bicycle rack, bench, and trash receptacles). See attached.
  - b) Revised note for retaining wall. See attached.
  - c) Revised note for Barrier- Free Guard-rail at Unit 3 (CIBC). See attached.

#### Revise drawing A005 - Site Details

d) EV Charging Station Callout and details added. See attached.

#### Revise drawing A301 - Elevations

e) Added additional wall sconce to West Elevation 1/A301. See attached.

#### **Revisions to Consultant Drawings:**

- **1.04** Refer to Landscape Addendum No. 2 issued by STLA dated 2023-08-01.
- 1.05 Refer to Mechanical Addendum No. 2 issued by Hammerschlag & Joffe dated 2023-08-01.



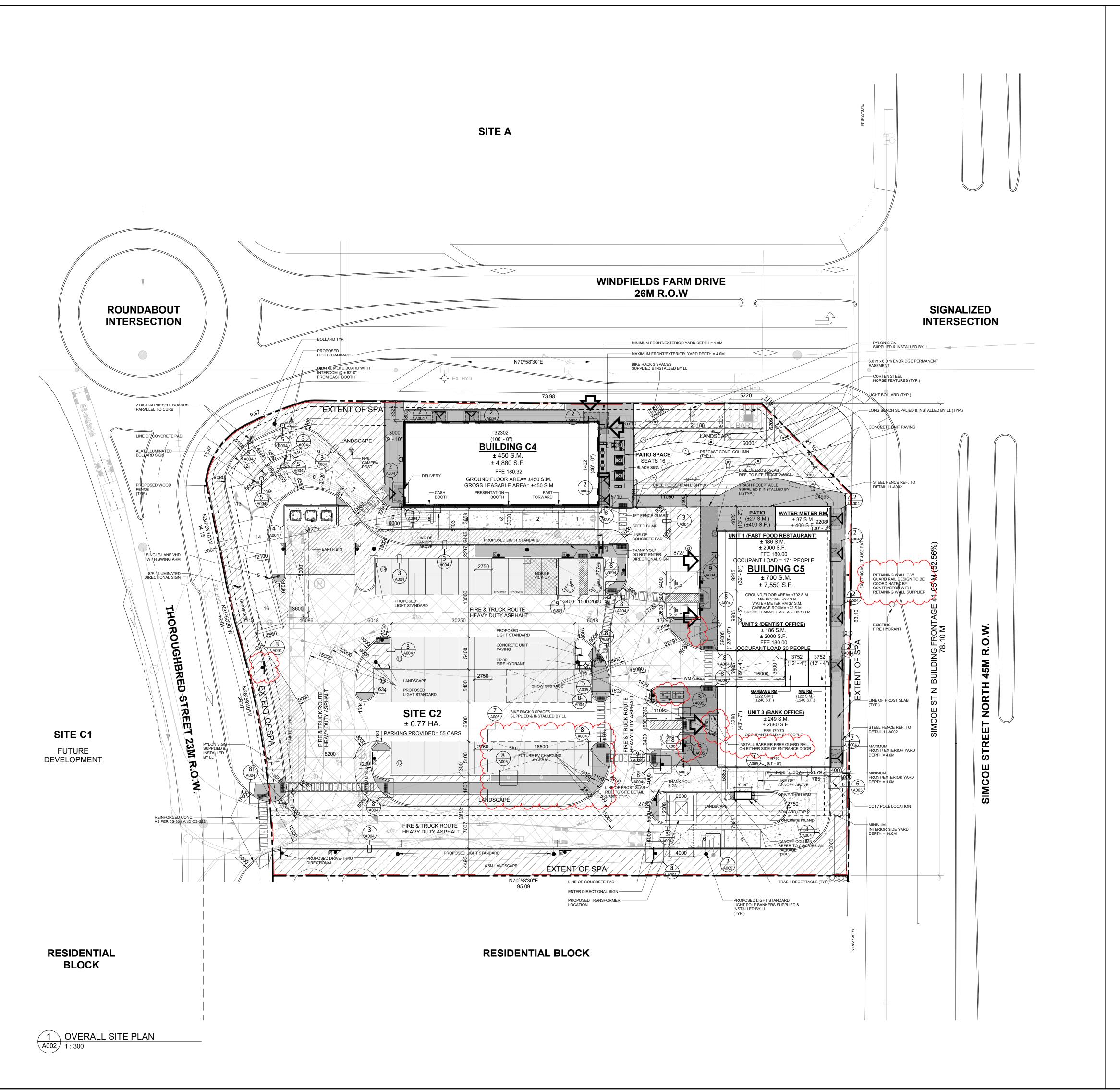
1.06 Refer to Electrical Addendum No. 2 issued by Hammerschlag & Joffe dated 2023-08-01.

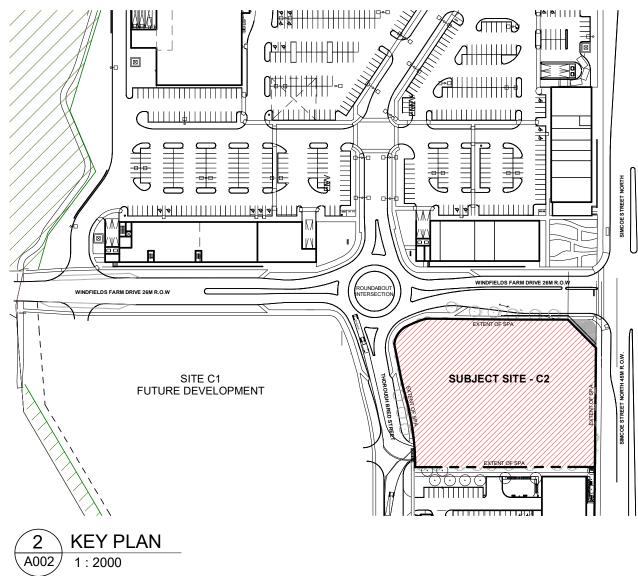
Issued To: Lauren Sullivan, Isullivan@riocan.com

Melea Bertagnolli, <u>mbertagnolli@riocan.com</u> Maryam Waseem, <u>mwaseem@riocan.com</u>

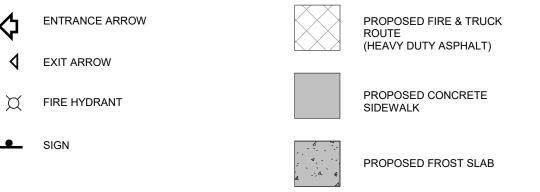
Issued By:

Edward Uzoma, <u>edward.uzoma@turnerfleischer.com</u> Melissa Hombrebueno, <u>melissa.hombrebueno@turnerfleischer.com</u>





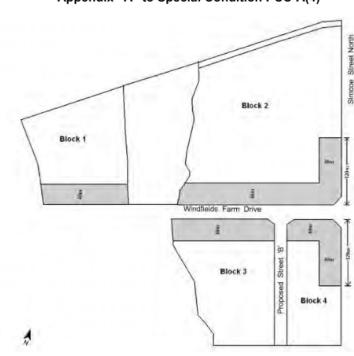
# LEGEND







# Appendix "A" to Special Condition PCC-A(4)



# SITE C2 ZONING CHART

PCC-A(4) h-55 h56 h57		
(PLANNED COMMERCIAL CENTRE)		
	REQUIRED	PROVIDED
MIN. FRONT/ EXTERIOR SIDE YARD	1 M	2.0 M - 4.0 M
MIN. INTERIOR SIDE, REAR YARD	10 M	20.2 M - 74.0 M
FOR APPENDIX "A" BUILDING SETBACK (BELOW)	MIN. 1M - MAX. 4M	3.0 M - 4.0 M
PARKING SPACE	2.6 M x 5.4 M	2.7 M X 5.4 M
PARKING AISLE	6.5 M	6.5 M
PARKING NUMBER		
TOTAL PARKING REQUIRED	46 SPACES	56 SPACES
SHOPPING CENTRE (1/24 S.M.)		
ACCESSIBLE PARKING SPACE	TYPE A 3.4 M X 5.4M	TYPE A 3.4 M X 5.4 M
	TYPE B 2.6 M X 5.4 M	TYPE B 2.6 M X 5.4 M
	ACCESS AISLE 1.5 M	ACCESS AISLE 1.5 M
ACCESSIBLE PARKING NUMBER	4 SPACES	5 SPACES
	(2 TYPE A + 2 TYPE B)	(2 TYPE A + 2 TYPE B)
LOADING SPACE	1 SMALL (3.6 M X 9 M)	1
	2 LARGE (3.6 M X 15 M)	2
DRIVE THROUGH		
VEHICLE QUEUING SPACES	3 M X 6 M	3 M X 6 M
MIN SETBACK	3M	3 M
NUMBER		
FINANCIAL INSTITUTIONS	4 SPACES	6 SPACES
RESTAURANT	16 SPACES	16 SPACES
DISTANCE FROM PUBLIC STREET	18 M	N/A
ENTRANCE	12 M	N/A
EXIT		·
BICYCLE PARKING NUMBER	NO REQ.	6 SPACES

# TURNER FLEISCHER

67 Lesmill Road Toronto, ON, M3B 2T8 T 416 425 2222

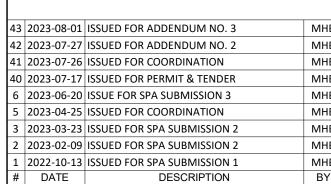
turnerfleischer.com

his drawing, as an instrument of service, is provided by and is the property of Turner leischer Architects Inc. The contractor must verify and accept responsibility for all imensions and conditions on site and must notify Turner Fleischer Architects Inc. of any ariations from the supplied information. This drawing is not to be scaled. The architect is ot responsible for the accuracy of survey, structural, mechanical, electrical, etc., information shown on this drawing. Refer to the appropriate consultant's drawings before roceeding with the work. Construction must conform to all applicable codes and equirements of authorities having jurisdiction. The contractor working from drawings not pecifically marked 'For Construction' must assume full responsibility and bear costs for

LEGAL DESCRIPTION: BLOCK C2, PLAN 40R-32231, CITY OF OSHAWA

y corrections or damages resulting from his work.

STATISTICS				
SITE C2	±1.91 ACRES	±0.77 HA		
BUILDING C4 AREA	±4,880 S.F.	±450 S.M		
RETAIL AREA (RESTAURANT)	±4,880 S.F.	±450 S.M		
BUILDING C5 AREA	±7,550 S.F.	±700 S.M		
RETAIL AREA	±2,000 S.F.	±186 S.M		
OFFICE AREA	±4,680 S.F.	±435 S.M		
M/E ROOM AREA	±240 S.F.	±22 S.M		
WATER METER ROOM	±400 S.F.	±37 S.M		
GARBAGE ROOM AREA	±240 S.F.	±22 S.M		
TOTAL RETAIL/LEASABLE AREA (GLA)	±11,560 S.F.	±1,071 S.M		
TOTAL SERVICE AREA	±880 S.F.	±81 S.M		
TOTAL BUILDING AREA	±12,430 S.F.	±1,150 S.M		
TOTAL PARKING REQUIRED	(1/24 S.M.)	46 SPACES		
BARRIER FREE PARKING SPACES	2 TYPE A	3 TYPE E		
PARKING PROVIDED		55 SPACES		
BARRIER FREE PARKING SPACES	3 TYPE A	2 TYPE E		
	4.42/1,000 S.F.	4.78/100 S.M		
FSI		0.14		
COVERAGE				
BUILDING AREA	±12,430 S.F.	14.94%		
	•			
PROPOSED PAVED SIDEWALK AREA	±8,820 S.F.	10.60%		
PROPOSED LANDSCAPE AREA	±15,132 S.F.	18.19%		
PROPOSED PAVEMENT	±44,616 S.F.	53.63%		





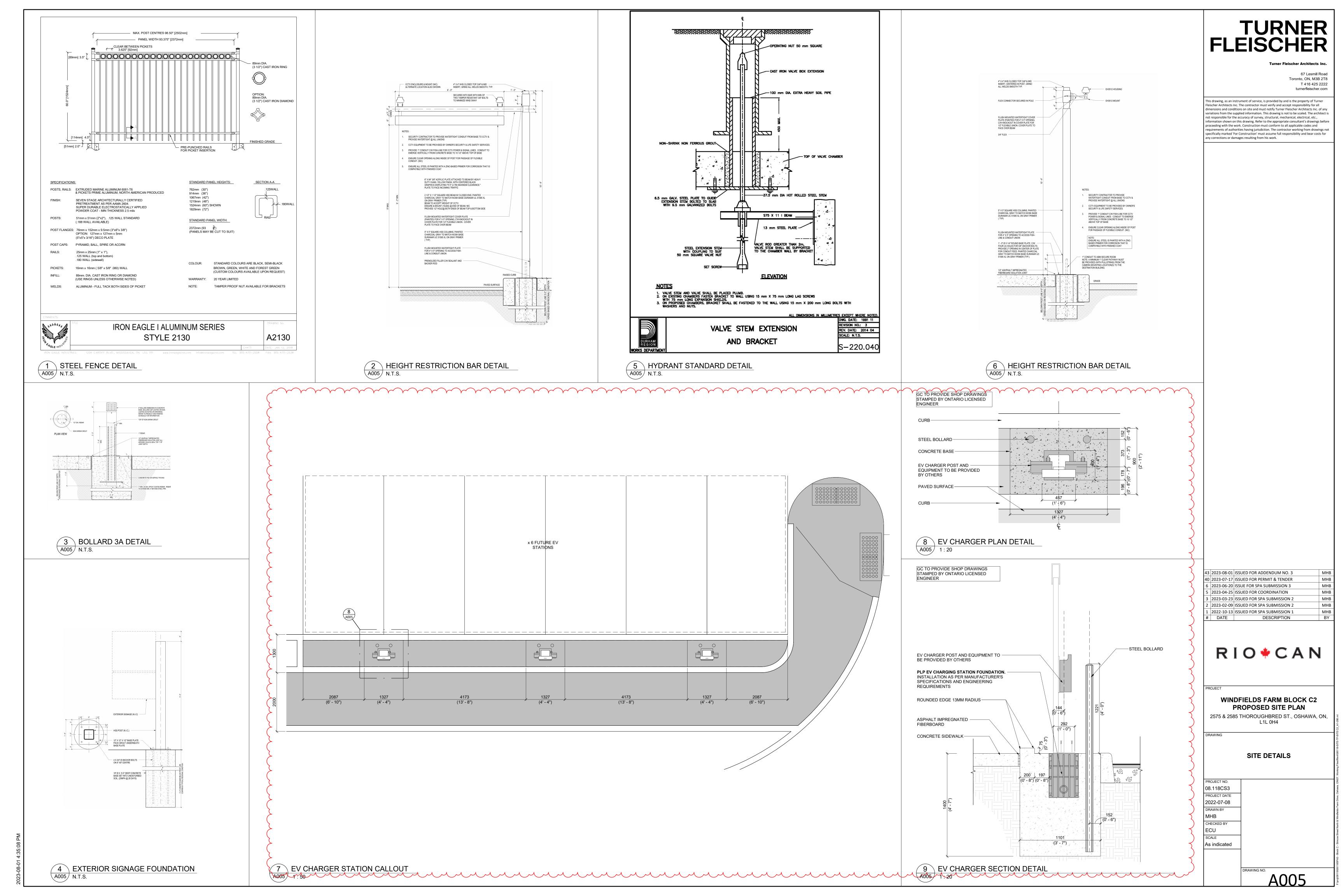
WINDFIELDS FARM BLOCK C2 PROPOSED SITE PLAN 2575 & 2585 THOROUGHBRED ST., OSHAWA, ON,

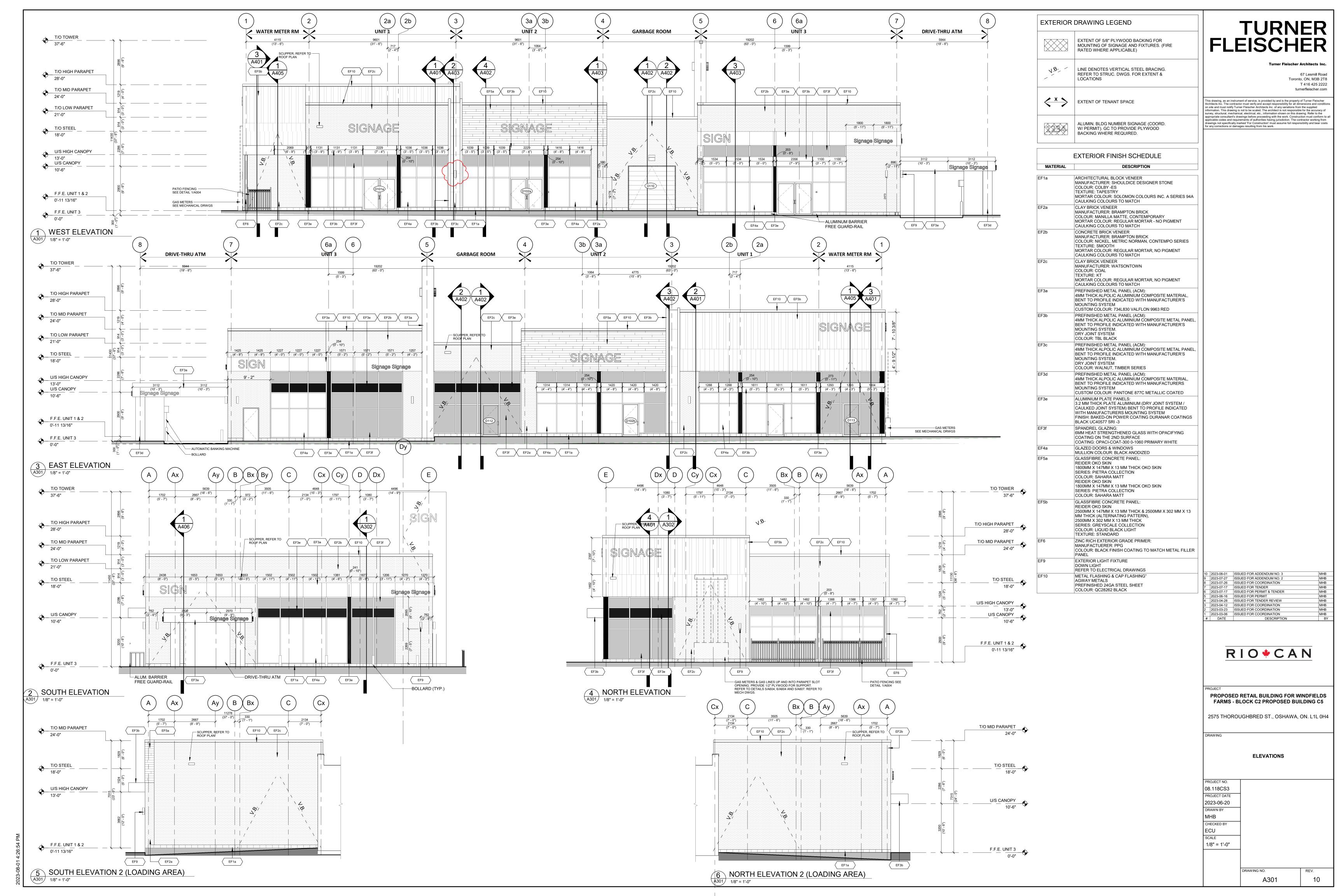
L1L 0H4

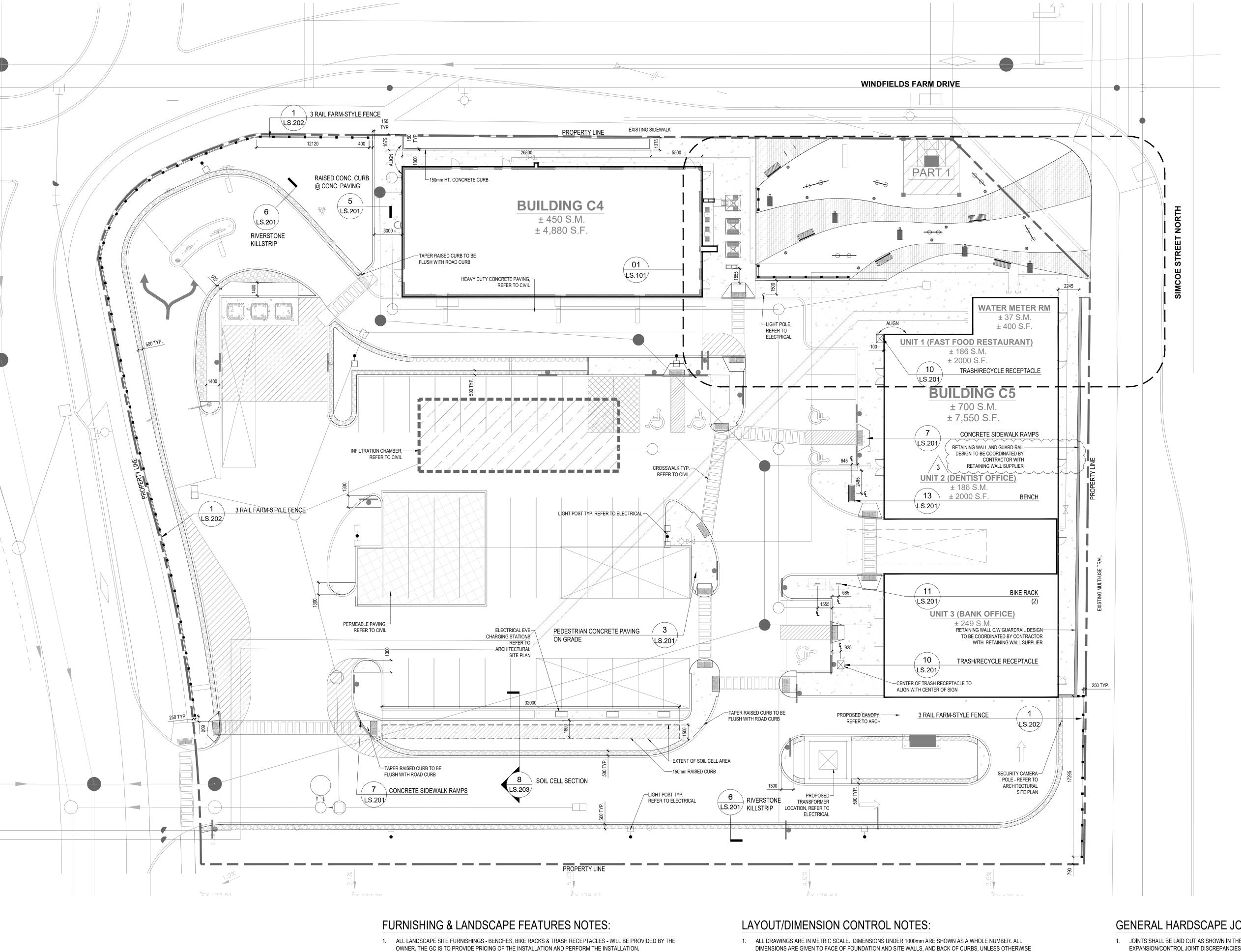
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A002

70.70.4







- 2. SOIL CELLS TO BE PROVIDED UNDER THE SOUTH WALKWAY AS NOTED IN DETAIL 8, DRAWING LS.203.
- DIMENSIONS ARE GIVEN TO FACE OF FOUNDATION AND SITE WALLS, AND BACK OF CURBS, UNLESS OTHERWISE INDICATED.
- 2. THE CONTRACTOR SHALL VERIFY ALL LAYOUT DIMENSIONS PRIOR TO CONSTRUCTION. ALL DISCREPANCIES BETWEEN PLAN, FIELD AND DETAIL SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR DIRECTION PRIOR TO PROCEEDING.
- 3. ALL DIMENSIONS ARE TAKEN PERPENDICULAR UNLESS OTHERWISE NOTED.
- 4. DIMENSIONS NOTED AS "EQUAL" OR "EQ", REFERENCED ITEMS SHALL BE SPACED EQUALLY, MEASURED TO SUBJECT CENTER LINES AND OTHER NOTED DIMENSIONAL CONTROLS.
- 5. INTERSECTING ELEMENTS SHALL BE INSTALLED AT 90 DEGREES IN RELATION TO CONTEXT UNLESS OTHERWISE
- 6. DIMENSIONAL COORDINATE POINTS ARE IN NORTHING AND EASTING UNITS
- 7. WRITTEN DIMENSIONS SHALL SUPERCEDE DRAWING MEASUREMENTS.

# **GENERAL HARDSCAPE JOINTING NOTES:**

1. JOINTS SHALL BE LAID OUT AS SHOWN IN THE DRAWINGS. CONTACT THE LANDSCAPE ARCHITECT IF ANY EXPANSION/CONTROL JOINT DISCREPANCIES EXIST TO DETERMINE RESOLUTION.

2. AT ALL EDGES OF EXISTING SIDEWALK OR CURB AGAINST WHICH NEW CONCRETE IS TO BE PLACED, SAWCUT AND REMOVE EXISTING CONCRETE BACK TO THE NEAREST CONTRACTION JOINT TO PROVIDE A SMOOTH TRANSITION TO THE NEW CONCRETE.

- 3. SAWCUT JOINTS SHALL BE INSTALLED WITHIN 24 HOURS OF CONCRETE BEING POURED. OVER CUT OF JOINTS SHALL NOT BE PERMITTED INTO NON JOINTED SURFACES.
- 4. INSTALL CONTINUOUS EXPANSION JOINTS AT ALL LOCATIONS WHERE NEW CONCRETE MEETS EXISTING CONCRETE PAVEMENT, SLABS, FOOTINGS, OR ANY VERTICAL SURFACES.
- 5. INSTALL EXPANSION JOINTS AT MAXIMUM 9 METER INTERVAL.
- 6. ALL JOINTING SHALL COMPLY WITH PLANS AND SHALL BE CONTINUOUS IN ALL INSTANCES.
- 7. EXPANSION JOINTS SHALL HAVE SEALANT UNLESS NOTED OTHERWISE.

Landscape Architect

STUDIO 11 a 20 Champlain Blvd. Suite 102 - Toronto ON - M3H 2Z1 (416) 638-4911 - info@studiotla.ca - www.studiotla.ca

# **WINDFIELDS** COMMERCIAL SITE C2

WINDFIELDS FARM DR W & SIMCOE ST N OSHAWA, ON

Project Number 22-166

Client

LEGEND

PEDESTRIAN CONCRETE PAVING

CORTEN STEEL HORSE FEATURES

CONCRETE UNIT PAVING

RIVER STONE

BIKE RACKS

RIOCAN BENCH

TACTILE WARNING PLATES

PATHWAY LIGHT BOLLARD

TRASH RECEPTACLE

PRECAST CONCRETE COLUMNS

FARM STYLE FENCE

RIOCAN PROPERTY SERVICES TRUST 2300 YONGE STREET, SUITE 500 TORONTO, ON M4P 1E4

Consultant TURNER FLEISCHER ARCHITECTS INC.

67 LESMILL ROAD TORONTO, ON M3B 2T8 TEL: 416.425.2222 801 ROSSLAND ROAD EAST, SUITE 201

WHITBY, ON L1N 8Y9 TEL: 905.668.3022 HAMMERSCHLAG & JOFFE 43 LESMILL ROAD TORONTO, ON M3B 2T8

Revisions

TEL: 416.444.9263

Issued for Tender Addendum 2

Issued for Permit & Tender 2023-07-14 MC

Seals

Keymap



Scale

0 1M

1:200

Phase CONSTRUCTION DOCUMENTS

North

Drawing Name

LANDSCAPE PLAN

Sheet Number

NOT FOR CONSTRUCTION



#### **MECHANICAL ADDENDUM 2**

**Project Name:** Windfield Farms Block C **Issued Date:** August 1, 2023

Project Address: WINCHESTER ROAD & SIMCOE M ADD No.: 2

STREET OSHAWA, ONTARIO

Issued By: Rishard Ragoonanan Architect: Turner Fleischer

Dan Joffe

**Project No.:** 22-000-176 **Attention:** Edward Uzoma

Note: The contractor shall submit a detailed, itemized quotation of the extra/credit/no charge for the following work which shall be subject to all conditions, quality of workmanship and materials as described in the specifications for all trades for the above-mentioned project. This Proposed Change does not authorize the contractor to proceed with the work or order any materials, unless instructed by the Owner or by the Consultant. This Proposed Change does not in any way relieve the contractor of the responsibility to meet the Tender project schedule.

#### **Description:**

#### 1. Drawing #M000 - MECHANICAL TITLE SHEET (Issued)

1.1. Fire protection legend symbol added for reference.

#### 2. Drawing #M001B - MECHANICAL DETAILS (Issued)

2.1. Incoming water detail updated to suit addition of dry sprinkler piping serving garbage room complete with RPZ backflow preventor assembly.

#### 3. Drawing #M002B – MECHANICAL SPECIFICATIONS (Issued)

3.1. Addition of fire protection specifications suitable for new dry sidewall sprinkler in garbage room.

#### 4. Drawing #M201 – LEVEL 1 PLUMBING PLAN (Issued)

4.1. Addition of new sidewall dry sprinkler head to serve garbage room as per manufacturer's recommendations. Verify placement of sprinkler head to suit NFPA 13 spatial requirements of room.

# 5. Drawing #M202 - SITE WATER METER ROOM & UTILITY ROOM ENLARGED VIEW - PD (Issued)

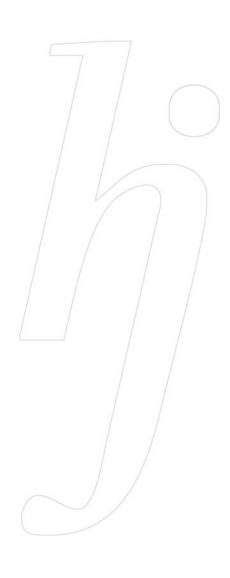
5.1. Addition of sprinkler distribution and funnel floor drain to serve dry sprinkler in garbage room.

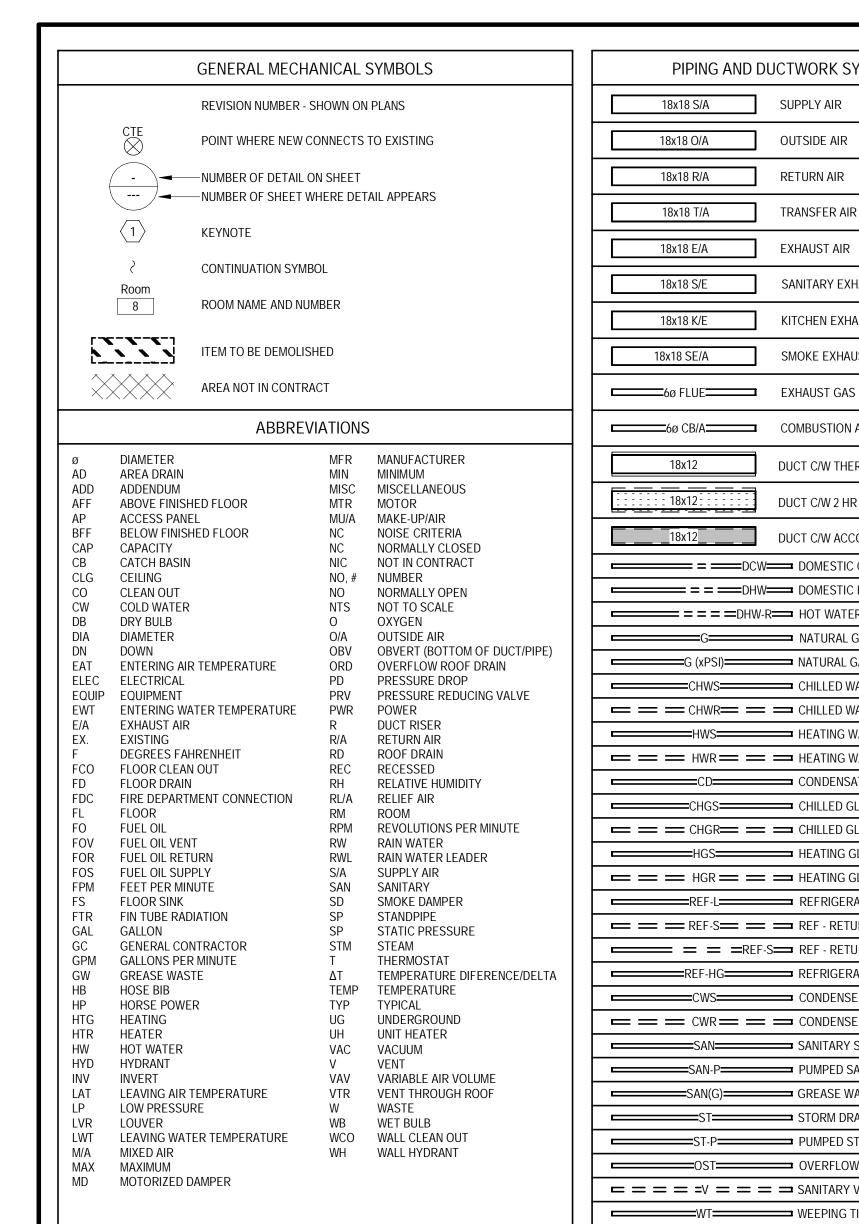


### **Reason for Change:**

Updated to suit client request.

End of Addendum #M2





ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN

THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE

USED IN THIS SET OF DRAWINGS.

PIPING AND	DUCTWORK SYSTEMS	PIPING 8	PIPING & PLUMBING SYMBOLS	
18x18 S/A	SUPPLY AIR	SIZE & SYSTEM	—————————————————————————————————————	
18x18 O/A	OUTSIDE AIR	SIZE & SYSTEM & ARROW	=====================================	
18x18 R/A	RETURN AIR	SIZE & SYSTEM & SLOPE & ARROW		
18x18 T/A	TRANSFER AIR	PIPE SPOT INVERT	SAN INV. 149.82 m	
18x18 E/A	EXHAUST AIR	CAP	===DHW===	
18x18 S/E	SANITARY EXHAUST AIR	PIPE BREAK	=DHW===================================	
18x18 K/E	KITCHEN EXHAUST AIR	PLUMBING TRAP	, , ,	
18x18 SE/A	SMOKE EXHAUST AIR		-4"Ø SAN (1% SLOPE)————————————————————————————————————	
6ø FLUE	EXHAUST GAS FLUE	CLEANOUT	→ =4"Ø SAN (1% SLOPE)= <b>→</b>	
6ø CB/A	COMBUSTION AIR	FLOOR CLEANOUT	<b>→</b> =4"Ø SAN (1% SLOPE)	
18x12	DUCT C/W THERMAL INSULATION	SHUT-OFF VALVE	DCW————	
18x12	DUCT C/W 2 HR FIRE	BALANCING VALVE	DCW——	
18x12	DUCT C/W ACCOUSTIC LINING	CHECK VALVE	<b>=</b> 2"Ø DCW <b>=</b> ➤	
	DOMESTIC COLD WATER  DOMESTIC HOT WATER	BUTTERFLY VALVE	DCW————————————————————————————————————	
	N-R HOT WATER RECIRCULATION	CIRCUIT SETTER	=2"Ø DCW=>	
	NATURAL GAS - LOW PRESSURE  NATURAL GAS - x PSI	2-WAY CONTROL VALVE	M	
	CHILLED WATER SUPPLY	GATE VALVE	DCW DCW	
	= - CHILLED WATER RETURN			
	HEATING WATER SUPPLY  HEATING WATER RETURN	GLOBE VALVE	DCW—DCW—	
	CONDENSATE DRAINAGE	PRESSURE REDUCING	<b>=</b> 2"Ø DCW <b>=</b> ►	
	CHILLED GLYCOL SUPPLY	STRAINER	=2"Ø DCW=>	
	CHILLED GLYCOL RETURN  HEATING GLYCOL SUPPLY	VIBRATION ISOLATION	DCW=IIII	
	=   → HEATING GLYCOL RETURN	BACKFLOW PREVENTER	RP7	
	REFRIGERANT - LIQUID SUPPLY	DOUBLE CHECK VALVE	=2"Ø DCW= → ★\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	= REF - RETURN - LOW TEMP	BACKFLOW PREVENTER REDUCED PRESSURE C/W DRAIN	2 1/2"Ø DCW=➤ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
	REFRIGERANT - HOT GAS	1	Δ	
CWS——	CONDENSER WATER SUPPLY	TRAP PRIMER	DCW—TP	
	CONDENSER WATER RETURN	HEAT TRACING	<b>□ 18</b> = 4"Ø SAN <b>□ 18</b> = DCW=	
	SANITARY SEWER  PUMPED SANITARY SEWER	3 WAY MOTORIZED	M	
	GREASE WASTE	CONTROL VALVE	=2"Ø DCW= <b>&gt;</b>	
ST=		THERMOSTATIC MIXING VALVE	1 1/4"Ø DCW-►	
ST-P	PUMPED STORM DRAINAGE	VALVE	7,74	
OST	OVERFLOW STORM DRAINAGE	DOMESTIC WATER METER	DCW WM	
<b>======</b>		METER	HWS M	
WT—		4		
	GROUND WATER DRAINAGE  PUMPED GROUND WATER	GAS METER ASSEMBLY	2 1/2"Ø G (xPSI)=► = GM)2 1/2"Ø G=► =	
STM (xPSI)		VERTICAL INLINE PUMP	□6"Ø HWR→ ‡()±6"Ø HWS→ 1	
	CONDENSATE RETURN	-		
	STEAM - HIGH PRESSURE	FLOOR DRAIN	FD	
CA	COMPRESSED AIR	FUNNEL FLOOR DRAIN	FFD-X	
		HUB DRAIN	HD-1	
		SCUPPER DRAIN	SD-X	
		AREA DRAIN	(AD-1)	
		AREA DRAIN - STORM	(100 L)	
			(100 L)	

STORM DRAIN

TRENCH DRAIN

CATCH BASIN

HOSE BIBB

ROOF HYDRANT

WALL HYDRANT

NON-FREEZE EXTERIOR

INCOMING DOMESTIC WATER ASSEMBLY - 6"Ø (100 L/15min)

(СВ-х

→ НВ

◆ ⊕ RHB

· NFHB

## **PROJECT GENERAL NOTES** ALL DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER: ALL MATERIALS, EQUIPMENT AND METHODS OF INSTALLATION OUTLINED IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE CONSIDERED ESSENTIAL TO THE CONTRACT. REVIEW

AND COORDINATE WITH ALL CONTRACT DRAWINGS (ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, INTERIOR DESIGN AND LANDSCAPE) AND SPECIFICATIONS PRIOR TO CONSTRUCTION.

- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE BUILDING CODES AND THE AUTHORITY HAVING JURISDICTION.
- UNLESS SPECIFICALLY NOTED OTHERWISE THE CONTRACTOR IS TO PROVIDE COMPLETE FULLY FUNCTIONING, TESTED AND COMMISSIONED MECHANICAL SYSTEMS.
- ALL EQUIPMENT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR IS TO PROVIDE ALL VALVES, CONTROLS AND ACCESSORIES AS REQUIRED BY THE EQUIPMENT SUPPLIERS/MANUFACTURERS TO ALLOW FOR PROPER OPERATION, SERVICEABILITY AND
- DO NOT SCALE DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC AND LOCATIONS OF EQUIPMENT PIPING AND DUCTWORK ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND MAKE ALLOWANCE FOR INSULATION, SUPPORTS AND ALL CLEARANCES.
- REVIEW LOCATIONS FOR ALL MECHANICAL SYSTEMS AND EQUIPMENT PRIOR TO INSTALLATION AND COORDINATE WITH ALL OTHER TRADES. CONFLICTS THAT CANNOT BE RESOLVED THROUGH SITE COORDINATION SHOULD BE IDENTIFIED AND REFERRED TO THE MECHANICAL CONSULTANT PRIOR TO INSTALLATION. PROVIDE AT NO ADDITIONAL COST ALL OFFSETS, ACCESS PANELS, LOW POINT DRAINS ETC. REQUIRED TO MAINTAIN CLEARANCE ABOVE CEILINGS.
- ANY EQUIPMENT, PIPE OR DUCTWORK INSTALLED BELOW THE SPECIFIED CEILING OR MINIMUM CLEARANCE HEIGHT (2100MM) (6' 10") WITHOUT PRIOR WRITTEN APPROVAL WILL BE REMOVED AND REPAIRED AT THE CONTRACTORS COST.
- INSULATION, ADHESIVES, VAPOR-BARRIER MATERIALS, AND OTHER ACCESSORIES INSTALLED ON MECHANICAL SYSTEMS SHALL HAVE MAX 25 FLAME SPREAD RATING AND MAX 50 SMOKE DENSITY RATING.
- THE GENERAL AND THE SUBCONTRACTOR(S) ARE TO REVIEW AND STAMP ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE MECHANICAL CONSULTANT FOR REVIEW. CONTRACTOR REVIEWS SHALL BE BASED ON COMPLIANCE WITH DESIGN EQUIPMENT AND SPECIFIED ACCESSORIES (COMPLIANCE WITH APPROVED EQUALS LIST, CAPACITY, DIMENSIONS, WEIGHT, POWER REQUIREMENTS, ETC.) THE CONTRACTOR SHALL FLAG, FOR APPROVAL DEVIATIONS FROM THE ORIGINALLY SPECIFIED EQUIPMENT. NO EQUIPMENT IS TO BE ORDERED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
- 10 THE CONTRACTOR IS TO OBTAIN WRITTEN APPROVAL FROM THE MECHANICAL CONSULTANT PRIOR TO PURCHASING EQUIPMENT OR INSTALLING MATERIALS THAT DEVIATE FROM THE SPECIFICATIONS OR APPROVED EQUALS. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR BEARING THE FULL COST OF REMOVING THE ALTERNATE PRODUCTS AND REPLACING THEM WITH THE SPECIFIED EQUIPMENT OR MATERIALS.10.THE CONTRACTOR IS TO OBTAIN WRITTEN APPROVAL FROM THE MECHANICAL CONSULTANT PRIOR TO PURCHASING EQUIPMENT OR INSTALLING MATERIALS THAT DEVIATE FROM THE SPECIFICATIONS OR APPROVED EQUALS. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR BEARING THE FULL COST OF REMOVING THE ALTERNATE PRODUCTS AND REPLACING THEM WITH THE SPECIFIED EQUIPMENT OR MATERIALS. 11 REPLACE ALL FILTERS IN AIR HANDLING SYSTEMS AT COMPLETION OF PROJECT.

12 SUBMIT SLEEVING SHOP DRAWINGS TO THE STRUCTURAL CONSULTANT FOR APPROVAL.

## MECHANICAL SHEET INDEX

M000 MECHANICAL TITLE SHEET

M001D PLUMBING FIXTURE SCHEDULES

M002A MECHANICAL SPECIFICATIONS

M002B | MECHANICAL SPECIFICATIONS

ENLARGED VIEW - HVAC

M200 UNDERFLOOR PLUMBING PLAN

M201 LEVEL 1 PLUMBING PLAN

ENLARGED VIEW - PD

M203 ROOF PLAN

M102 | SITE WATER METER ROOM & UTILITY ROOM

M202 SITE WATER METER ROOM & UTILITY ROOM

M001B | MECHANICAL DETAILS

M001C MECHANICAL DETAILS

M101 LEVEL 1 HVAC PLAN

M001A SCHEDULES

HAMMERSCHLAG & JOFFE INC 43 Lesmill Road, Toronto, Ontario Canada M3B 2T8 T: (416) 444.9263 F: (416) 444.1463 E: dwg@hamjof.com

2023-08-01 | ISSUED FOR ADD M2 | SSUED FOR ADD M2 | SSUED FOR ADD M2 | SSUED FOR ENDER AND PERMIT | SSUED FOR PERMIT | 2023-06-16 | ISSUED FOR COORDINATION | B DATE | DESCRIPTION |

RIO+CAN

WINDFIELDS FARMS - BLOCK C2, PROPOSED BUILDING C5

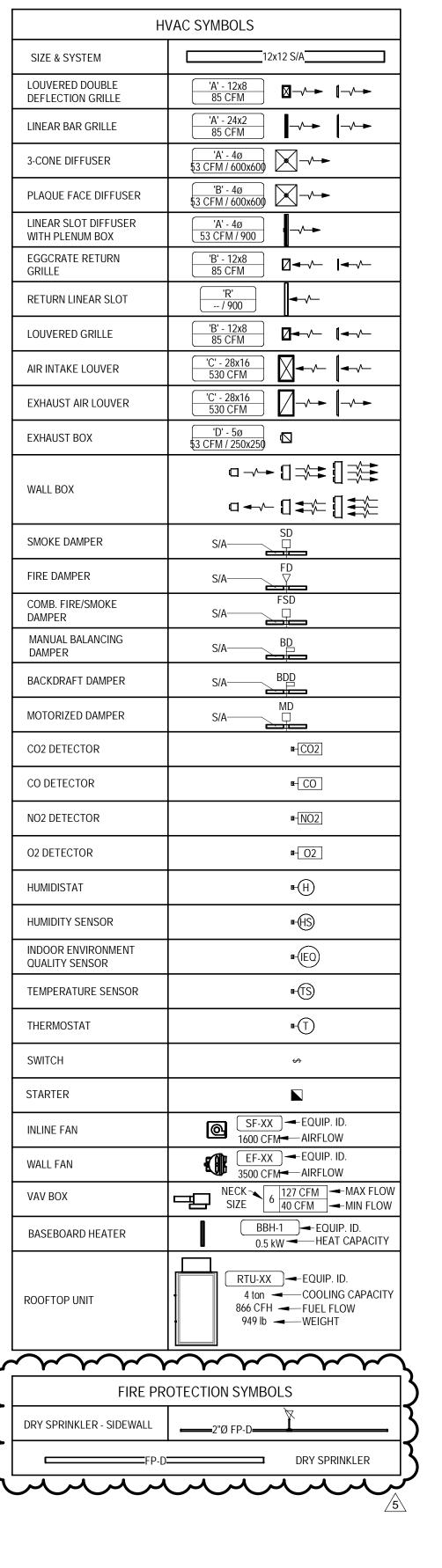
WINCHESTER ROAD & SIMCOE STREET, OSHAWA

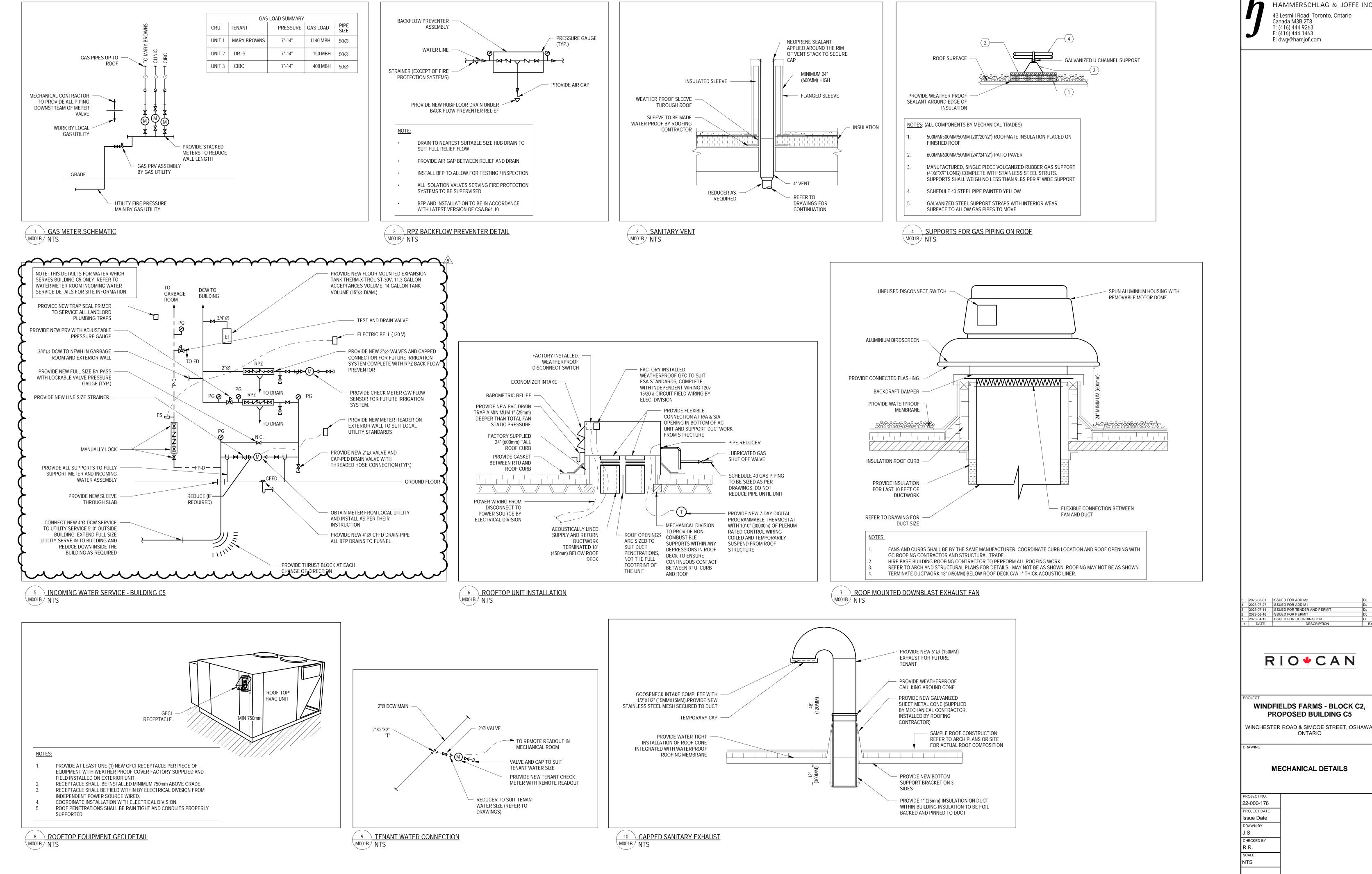
MECHANICAL TITLE SHEET

PROJECT NO. 22-000-176 PROJECT DATE Issue Date DRAWN BY D.C. CHECKED BY R.R. SCALE

N.T.S.

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M001B

13 Lesmill Road, Toronto, Ontario

MECHANICAL SPECIFICATION - HVAC	
PROVIDE ALL CONTROLS AS LISTED WITHIN THESE DOCUMENTS AND AS REQUIRED TO PROVIDE A FULLY OPERATIONAL SYSTEM. PROVIDE A 7-DAY DIGITAL PROGRAMMABLE THERMOSTAT WITH EACH RTU AND ALL OTHER	1 1.1
CONTROLS AS REQUIRED.  PROVIDE 50MM (2") THICK ROLL DISPOSSIBLE MERV 8 RATED, METAL FRAMED FILTERS. AT THE END OF CONSTRUCTION REPLACE FILTERS USED FOR INITIAL START UP, TESTING AND BALANCING, AND PROVIDE A SECONDARY SET OF	1.2
FILTERS PER RTU TO OWNER.  PROVIDE CSA 149 APPROVED MULTIPLE PASS DIRECT SPARK IGNITIATION REMOVABLE GAS HEAT EXCHANGER AND BURNER ASSEMBLY SUITABLE FOR NATURAL GAS SUPPLY PRESSURE OF 7" W.C. WITH STAINLESS STEEL PRIMARY	1.3
AND SECONDARY HEATING SURFACES COMPLETE WITH 100% SAFETY SHUTDOWN FLAME SENSOR CONTROLS, FLAME ROLLOUT SWITCH, LIMIT CONTROLS, REDUNDANT DIAL GAS VALVES WITH STAGING CONTROL AND COMBUSTION AIR PROVIDING SWITCH.	
PROVIDE FACTORY INSTALLED INTERNALLY SLOPPED NON-CORROSIVE CONDENSATE DRAIN PAN COMPLETE WITH FACTORY SUPPLIED, FIELD	1.4
INSTALLED, PVC TRAP. TRAP SHALL BE A MINIMUM OF 25 MM (1") DEEPER THAN MAXIMUM STATIC PRESSURE OF FAN.	1.5
RTU SHALL BE COMPLETE WITH FACTORY INSTALLED HEATING CONTROLS AS REQUIRED TO PROVIDE A FAIL-SAFE HEATING SYSTEMS INCLUDING ALL SAFETIES AND CONTROLS NECESSARY. UNIT SHALL SHUT DOWN IN EVENT	1.6
WHERE ITS OPERATION IS CONSIDERED UNSAFE AND RECORD ALL ERRORS.  SUPPLY AIR BLOWER SHALL BE BELT DRIVEN FORWARD CURVED DOUBLE	1.7
INLET CENTRIFUGAL TYPE FAN, STATICALLY AND DYNAMICALLY BALANCED WITHIN REMOVABLE BLOWER ASSEMBLY. ALL COMPONENTS SHALL BE STEEL	1.8
WITH CORROSION RESISTANCE FINISHED FACTORY APPLIED. BLOWER ASSEMBLY SHALL BE MOUNTED ON VIBRATION ISOLATION SPRING ISOLATORS.	
ALL CONTROLS SHALL BE FACTORY INSTALLED AND CALIBRATED INCLUDING INTEGRAL CONTROL PANEL, CONTROL SENSORS AND WIRING. WHERE	1.9
SPECIFIC NON STANDARD CONTROLS ARE REQUIRED AS PER THESE DOCUMENTS THEY SHALL BE FACTORY INSTALLED AND TESTED. UNIT SHALL	1.10
BE COMPLETE WITH ALL TRANSFORMERS TO CREATE CONTROLS VOLTAGES REQUIRED.	1.10
PROVIDE NEW 600MM (24") HIGH PREFABRICATED AND INSULATED ROOF CURB CONFORMING TO THE REQUIREMENTS OF THE NATIONAL ROOFING CONTRACTORS ASSOCIATION. ROOF CURB SHALL BE PROVIDED BY THE RTU MANUFACTURER.	1.11
WHERE REQUIRED, PROVIDE NEW CUSTOM FABRICATED ROOF CURB ADAPTER COMPLYING TO THE NATIONAL ROOFING CONTRACTORS ASSOCIATION. ALL EXISTING CURB DIMENSIONS SHALL BE FIELD FABRICATED. CUSTOM ROOF CURB ADAPTER SHALL BE FULLY INSULATED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROVINCE OF INSTALLATION.	2.1
WHERE REQUIRED PROVIDE FACTORY SECURED SEISMIC RESTRAINT CONNECTION HARDWARE.  UNLESS OTHERWISE STATES, ROOF CURBS SHALL BE PURCHASED BY	2.2
MECHANICAL CONTRACTOR AND INSTALLED BY ROOFING CONTRACTOR. ORDER AND HAND OVER ROOF CURBS IN A TIMELY MANNER TO SUIT THE CONSTRUCTION SCHEDULE.	
PROVIDE ALL RTU OPTIONS AS LISTED ON THE DRAWINGS AND AS NOTED BELOW: -DUAL ENTHALPY ECONOMIZER COMPLETE WITH HOOD AND ALL REQUIRED CONTROLS.	2.3
-BAROMETRIC RELIEF DAMPERS COMPLETE WITH HOODFACTORY INSTALLED, FIELD WIRED, 120V 20A/15A GFCI COMPLETE WIT WEATHERPROOF COVER COMPLYING WITH LATEST ESA STANDARDS. GFCI SHALL BE WIRED FROM INDEPENDENT POWER SOURCE TO REMAIN	2.4
OPERATIONAL WITH RTU POWER SHUT DOWN.  INSTALL ALL ROOF TOP UNITS LEVEL WITH THE FLOOR LEVEL BELOW. INCLUDE FOR ALL BEVELLED CURBS AS REQUIRED TO ACHIEVE THIS REQUIREMENT. INSTALL UNITS TO ENSURE SERVICE CLEARANCES AND CLEARANCES FROM	
EDGE OF ROOF ARE MAINTAINED. INSTALL ALL COMPONENTS SHIPPED LOOSE WITH RTU ON SITE. PAY FOR FACTORY TRAINED TECHNICIAN TO PERFORM RTU START UP AND CONFIRM	
CORRECT INSTALLATION OF INSTALLATION.  AFTER SUCCESSFUL START UP OF RTU, PERFORM ALL COMMISSIONING AND	2.5
TESTING AND BALANCING OF THE RTU. SUBMIT ALL START UP, AND TESTING AND BALANCING REPORTS FOR RTU TO CONSULTANT FOR REVIEW. PROVIDE	2.0
ALL DEMONSTRATION AND TRAINING OF CORRECT OPERATION AND MAINTENANCE OF THE UNIT TO THE OWNER AND PROVIDE PROOF DEMONSTRATION AS PART OF CLOSE OUT DOCUMENTS.	2.6
PROVIDE UNIT WITH LIMITED 5 YEAR WARRANTY ON COMPRESSOR, 3 YEAR	2.7
WARRANTY ON UNIT CONTROLS, 5 YEAR WARRANTY ON GAS HEAT EXCHANGER, AND 1 YEAR WARRANTY ON ALL OTHER COMPONENTS.	2.8
STORE AND HANDLE ALL UNITS AS PER THE MANFUACTURER'S WRITTEN RECOMMENDATIONS. DO NOT MOVE, HANDLE, OPERATE OR OTHERWISE ACT IN ANY WAY TO WAIVE UNIT WARRANTIES.	2.9
ANT WAT TO WAIVE ONLY WAINLANTIES.	2.7
MECHANICAL SPECIFICATION - CONTROLS	2.10 2.11
PROVIDE ALL CONTROLS AS SHOWN ON THESE DRAWINGS.	
ALL CONTROLS WORK SHALL BE PROVIDED BY BASE BUILDING CONTROLS CONTRACTOR AND INCLUDED IN MECHANICAL SCOPE OF WORK AND TENDER.	
ALL CONTROLS WIRING SHALL BE PLENUM RATED. MECHANICAL CONTRACTOR SHALL PROVIDE ALL 120V AND LOW VOLTAGE	2.12
WIRING AS REQUIRED TO COMPLETE CONTROLS SCOPE OF WORK. PROVIDE ALL TRANSFORMERS AS REQUIRED TO PROVIDE LOW VOLTAGE CONTROL	2.13
WIRING. WHERE CONTROLS WORK REQUIRED 120V WIRING, HIRE ELECTRICAL CONTRACTOR TO PERFORM ALL SAID WORK.  PROVIDE ALL NEW THERMOSTATS TO SUIT BASE BUILDING STANDARDS WHERE APPLICABLE.	3 3.1
WHERE THERMOSTATS HAVE OCCUPANT INTERACTION, THEY SHALL BE INSTALLED 4'-0" ABOVE FINISHED FLOOR, WITH LOCKING PLEXI-GLASS COVER.	
INSTALLED 4 6 ABOVE FINISHED FEGOR, WITH LOOKING FEEAT GETSS GOVEN.	
	3.2
	3.3
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MECHANICAL SPECIFICATION - INSULATION

DRAWINGS.

ASHRAE 90.1.

PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO INSULATE ALL

MECHANICAL SYSTEMS AS SPECIFIED WITHIN THIS SECTION AND AS NOTED ON

UNLESS OTHERWISE SPECIFIED, INSULATION THERMAL PERFORMANCE IS TO

EDITIONS OF THE NATIONAL ENERGY CODE OF CANADA FOR BUILDINGS AND

MEET OR EXCEED THE MORE STRINGENT REQUIREMENTS OF THE LATEST

ALL SYSTEM SUBJECT TO CONDENSATION (INCLUDING COLD AND DUAL BETWEEN THE FLANGE/COUPLING INSULATION AND THE PIPE INSULATION WITH TEMPERATURE) SHALL BE INSULATED COMPLETE WITH VAPOUR BARRIER. THE SAME MATERIAL. ENSURE A CONTINUOUS VAPOUR SEAL ACROSS FULL VAPOUR BARRIER SHALL BE INSTALLED OVER ALL SYSTEM COMPONENTS INSTALLATION. INCLUDING VALVES. VAPOUR BARRIER SHALL BE COMPLETE AND CONTINUOUS INSULATION EXPOSED TO THE OUTDOORS SHALL BE WRAPPED IN ALUMINUM IN ITS ENTIRETY. ANY DAMAGE TO VAPOUR BARRIER SHALL REQUIRE FULL JACKET AND SEALED AT ALL ENDS. REMOVAL AND REPLACEMENT. DO NOT PATCH NEW VAPOUR BARRIERS PROVIDE FIRE-RATED DUCT WRAP WHERE SHOWN ON DRAWINGS AND WHERE INSTALLED AS PART OF THIS CONTRACT. REQUIRED TO MEET COSTS: INSULATION SHALL ONLY BE APPLIED ONCE SYSTEMS HAVE BEEN TESTED AND 3.21.1 FOR FIRE RATED DUCTS PROVIDE FLEXIBLE NON-COMBUSTIBLE BLANKET TYPE I. REVIEWED BY ENGINEER AND AUTHORITY HAVING JURISDICTION. MINERAL FIBRE DUCT WRAP COMPLETELY ENCAPSULATED IN REINFORCED INSTALL INSULATION ON PIPES AND DUCTS WHICH ARE CLEAN AND DRY, AND FOIL 1-1/2" (40MM) THICK, SUITABLE FOR INSTALLATION WITH ZERO CLEARANCE WITH ENVIRONMENTAL CONDITIONS AS REQUIRED BY THE INSULATION TO COMBUSTIBLES, AND ULC TESTED AND LISTED (ULC DESIGNS FRD-3 & 5 FOR MANUFACTURER VENTILATION DUCTS, ULC DESIGN FRD-4 FOR KITCHEN EXHAUST DUCTS TO FACILITATE A 1 OR 2 HOUR FIRE RESISTANCE RATING EQUAL TO 3M FIRE STORE ALL INSULATION MATERIAL ON SITE IN A DRY STORAGE AREA AND PROTECTION PRODUCTS FIRE MASTER. ENVIRONMENTAL CONDITIONS AS REQUIRED BY THE INSULATION MANUFACTURER 3.21.2 INSTALL FIRE RATED DUCT WRAP IN STRICT ACCORDANCE WITH ALL INSULATION OF MECHANICAL SYSTEMS SHALL BE INSTALLED BY A SINGLE MANUFACTURER'S AND ULC LISTING REQUIREMENTS FOR KITCHEN EXHAUST INSULATION CONTRACTOR. OR VENTILATION DUCTWORK AS NECESSARY. DO NOT COVER FIRE WRAP LABELS REGARDLESS OF FINISH. IDENTIFY DUCT SERVICE AND FLOW ALL INSULATION SHALL HAVE FLAME AND SMOKE SPREAD RATINGS OF 25/50 AND AS REQUIRED BY THE LOCAL BUILDING CODE AND REQUIREMENTS OF THE DIRECTION WITH STENCILED MARKINGS. AUTHORITY HAVING JURISDICTION AND AS PER CAN/ULC-S114 AND 3.21.3 ARRANGE AND PAY FOR THE DUCT WRAP SUPPLIER TO EXAMINE THE COMPLETED DUCT WRAP SYSTEM ON SITE AND SUBMIT A LETTER FROM THE CAN/ULC-S101 SUPPLIER TO CERTIFY THAT THE DUCT WRAP SYSTEM HAS BEEN PROPERLY ACCEPTABLE INSULATION MANUFACTURERS ARE JOHNS MANVILLE. OWENS INSTALLED CORNING, MANSON INSULATION, AND KNAUF OR AS LISTED BELOW. 3.21.4 FOR FIRE RATED DUCTS PROVIDE FLEXIBLE NON-COMBUSTIBLE BLANKET TYPE ALL PIPE/DUCT LABELS SHALL BE APPLIED TO OUTSIDE OF INSULATION USING MINERAL FIBRE DUCT WRAP COMPLETELY ENCAPSULATED IN REINFORCED STENCILS OR WITH PIPE WRAP LABELS INSTALLED IN SUCH A WAY AS TO BE FOIL 1-1/2" (40MM) THICK, SUITABLE FOR INSTALLATION WITH ZERO CLEARANCE VISIBLE FROM THE FLOOR TO COMBUSTIBLES, AND ULC TESTED AND LISTED (ULC DESIGNS FRD-3 & 5 FOR ALL INSULATION BUTT JOINTS SHALL BE FIRMLY CONNECTED JOINED AND VENTILATION DUCTS, ULC DESIGN FRD-4 FOR KITCHEN EXHAUST DUCTS TO INSTALLED IN SUCH A WAY AS TO NOT SEPARATE OVER TIME. FACILITATE A 1 OR 2 HOUR FIRE RESISTANCE RATING EQUAL TO 3M FIRE PIPING INSULATION PROTECTION PRODUCTS FIRE MASTER. FOR SYSTEMS UP TO 250 F (121 C) PROVIDE BELFORM INSULATION LTD 3.21.5 INSTALL FIRE RATED DUCT WRAP IN STRICT ACCORDANCE WITH KOOLPHEN K-BLOCK INSULATED PIPE SUPPORT INSERTS. A MINIMUM OF 6 MANUFACTURER'S AND ULC LISTING REQUIREMENTS FOR KITCHEN EXHAUST (150MM) LONG, PRE-MOLDED, RIGID, SECTIONAL PHENOLIC FOAM INSULATION OR VENTILATION DUCTWORK AS NECESSARY. DO NOT COVER FIRE WRAP (MATCHING THICKNESS OF ADJACENT INSULATION) WITH REINFORCED FOIL LABELS REGARDLESS OF FINISH. IDENTIFY DUCT SERVICE AND FLOW AND KRAFT PAPER VAPOUR JACKET AND A 180 DEGREE CAPTIVE GALVANIZED DIRECTION WITH STENCILED MARKINGS. STEEL SADDLE. 3.21.6 ARRANGE AND PAY FOR THE DUCT WRAP SUPPLIER TO EXAMINE THE FOR ABOVE GROUND PIPE PROVIDE PREFORMED MINERAL FIBRE RIGID. COMPLETED DUCT WRAP SYSTEM ON SITE AND SUBMIT A LETTER FROM THE SECTIONAL, SLEEVE TYPE INSULATION TO ASTM STANDARD C 547, STANDARD SUPPLIER TO CERTIFY THAT THE DUCT WRAP SYSTEM HAS BEEN PROPERLY SPECIFICATION FOR MINERAL FIBRE PIPE INSULATION, WITH A FACTORY APPLIED VAPOUR BARRIER JACKET EOUAL TO JOHN MANVILLE INC MICRO-LOI PROVIDE ACOUSTIC DUCT LINING WHERE NOTED ON DRAWINGS AND AS A 3.22 AP-T PLUS, KNAUF FIBER GLASS PIPE INSULATION WITH ASJ-SSL JACKET, MINIMUM THE FIRST 10 FEET ON BOTH SUPPLY AND RETURN DUCTS MANSON INSULATION INC ALLEY K APT OR OWNES CORNING FIBERGLASS PIPE DOWNSTREAM OF FANS/TERMINAL UNITS PLUS AT LEAST TWO CHANGES OF FOR ALL VALVES AND ACCESSORIES IN PIPING SYSTEMS PROVIDE BLANKET ACOUSTIC DUCT LINING SHALL BE A MINIMUM OF 1" (25MM) THICK ACOUSTIC MINERAL FIBRE TYPE ROLL INSULATION TO ASTM C553, STANDARD LINING MATERIAL MEETING NFPA 90A REQUIREMENTS AND FLAME AND SMOKE | SPECIFICATION FOR MINERAL FIBRE BLANKET THERMAL INSULATION FOR SPREAD DEVELOPMENT FIRE HAZARD RATINGS OF CAN/ULC-S102, FLEXIBLE COMMERCIAL AND INDUSTRIAL APPLICATIONS, 24 KG/M<sup>3</sup> (1-1/2 LB./FT/<sup>3</sup>) FOR ROUND DUCT, BOARD TYPE FOR RECTANGULAR DUCTS, CONSISTING OF A DENSITY WITH A FACTORY APPLIED VAPOUR BARRIER FACING. BONDED FIBERGLASS MAT COATED ON THE INSIDE (AIRSIDE) FACE WITH A PROVIDE THE FOLLOWING INSULATION THICKNESSES: BLACK FIRE-RESISTANCE RATING. MATERIAL SHALL HAVE NOISE REDUCTION 2.4.1 DOMESTIC COLD WATER PIPING UP TO AND INCLUDING 4" (100MM) - 1" (25MM) COEFFICIENT OF 70 OR HIGHER. WITH VAPOUR BARRIER INSTALL LINING IN ACCORDANCE WITH ANSI/SMACNA HVAC DUCT 2.4.2 DOMESTIC COLD WATER PIPING LARGER THAN 4" (100 MM) - 1-1/2" WITH CONSTRUCTION STANDARDS PLUS FOR ALL INSTALLATION REGARDLESS OF VAPOUR BARRIER VELOCITY AT THE LEADING AND TRAILING EDGES OF DUCT LINER SECTION PROVIDE GALVANIZED STEEL NOSING CHANNEL AS PER ANSI/SMACNA 2.4.3 STORM PIPING - 1" (25MM) WITH VAPOUR BARRIER STANDARDS: 2.4.4 CONDENSATE PIPING - 1" (25MM) WITH VAPOUR BARRIER 2.4.5 MECHANICAL SYSTEMS COMPLETE WITH HEAT TRACING OF ALL SIZES - 2" MECHANICAL SPECIFICATION - FIRE PROTECTION WRAP ALL EXPOSED INSULATION WITH WHITE SHEET PVC AND FITTING COVERS JACKET. INSTALL JACKET WITH OVERLAPPING LONGITUDINAL AND CIRCUMFERENTIAL JOINTS AND PROVIDE WATER TIGHT INSULATION. PROVIDE PROVIDE ALL LABOUR, MATERIAL, EQUIPMENT, ENGINEERING, AND SERVICES SLIP-TYPE JACKET EXPANSION JOINTS WHERE REQUIRED. REQUIRED TO SUPPLY A CODE COMPLIANT FIRE PROTECTION SYSTEM IN INSULATION SHALL BE APPLIED DIRECTLY TO THE PIPE AND NOT AROUND ACCORDANCE WITH THESE DOCUMENTS. HANGERS AND SUPPORTS. THESE DOCUMENTS ARE INTENDED TO SHOW A GENERAL SCOPE OF WORK INSTALL ALL INSULATION IN ACCORDANCE WITH MANUFACTURER RELATED TO FIRE PROTECTION. ALL SYSTEMS SHALL BE IN STRICT ACCORDANCE WITH: PROVIDE PREFORMED INSULATION ON ALL BARRIER FREE LAVATORIES 1.2.1 NFPA 10 INCLUDING P-TRAP, ANGLE STOPS AND PIPING INSULATION. 1.2.2 NFPA 13 ALL INSULATION SHALL BE CONTINUOUS AND BE EXTENDED THROUGH WALL 1.2.3 ONTARIO BUILDING CODE (OBC) AND FLOOR OPENINGS. SUPPLY SOUND PROOF AND FIRE PROOF 1.2.4 ONTARIO FIRE CODE (OFC) PENETRATIONS TO SUIT. 1.2.5 LOCAL FIRE MARSHALL'S REQUIREMENTS INSULATION APPLIED IN TWO LAYERS SHALL HAVE JOINTS STAGGERED. 1.2.6 OWNER'S INSURANCE PROVIDERS REQUIREMENTS INSULATE OVER FLANGES AND MECHANICAL COUPLINGS WITH INSULATION TO FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE FOLLOWING SCOPE OF MATCH PIPE INSULATION THICKNESS AND OUTSIDE DIAMETER OF WORK INCLUDED IN THEIR TENDER AMOUNT: FLANGE/COUPLING. FILL THE VOID BETWEEN THE FLANGE/COUPLING 1.3.1 HYDRAULICALLY DESIGN ALL NEW AND MODIFICATIONS OF EXISTING FIRE INSULATION AND THE PIPE INSULATION WITH THE SAME MATERIAL. ENSURE A PROTECTIONS SYSTEM BY A QUALIFIED SPRINKLER ENGINEER LICENSED TO CONTINUOUS VAPOUR SEAL ACROSS FULL INSTALLATION. PRACTICE IN THE PROVINCE OF INSTALLATION. DO NOT INSULATE TERMINAL UNIT CONTROL VALVES SO LONG AS THEY ARE 1.3.2 THE SPRINKLER CONTRACTOR'S ENGINEER SHALL BECOME THE SPRINKLER SITUATION ABOVE CONDENSATE PAN. FNGINEER OF RECORD AND SUBMIT ALL REQUIRED DESIGN TO THE CITY WHERE INSULATING INLINE COMPONENTS WITH FLEXIBLE INSULATION, DO NOT BUILDING DEPARTMENT, FIRE MARSHALL AND BUILDING INSURANCE COMPRESS PRODUCT MORE THAN 50% OF ORIGINAL FACTORY THICKNESS. APPLY LAYERS AS REQUIRED TO ACHIEVE MINIMUM THICKNESS VALUES. 1.3.3 PROVIDING FIRE PROTECTION ZONING IN ACCORDANCE WITH EXISTING SHEET METAL INSULATION BUILDING ZONING AND AS PER THESE DOCUMENTS. FOR EXPOSED RECTANGULAR DUCTS PROVIDE PREFORMED BOARD TYPE 1.3.4 PROVIDE SPRINKLER SYSTEM HYDRAULIC PERFORMANCE TO SUIT THE INSULATION TO ASTM C612, STANDARD SPECIFICATION FOR MINERAL FIBER HAZARD CLASSIFICATION OF THE SPACE. BOCK AND BOARD THERMAL INSULATION WITH A FACTORY APPLIED REINFORCED ALUMINUM FOIL AND KRAFT PAPER FACING EQUAL TO KNAUF 1.3.5 ADHERE TO ALL FM GLOBAL REQUIREMENTS WHERE APPROPRIATE. FIBER GLASS INSULATION BOARD WITH FSK FACING, MANSON INSULATION INC PROVIDE ALL REQUIRED SPRINKLER HEADS REQUIRED TO PROVIDE CODE AK BOARD FSK, JOHNS MANVILLE INC TYPE 814 SPIN-GLAS OR OWENS COMPLIANT DESIGN, THESE DOCUMENTS ARE INTENDED TO SHOW THE CORNING 703, 704. MINIMUM NUMBER OF SPRINKLER HEADS. FOR EXPOSED ROUND OR OVAL DUCTS PROVIDE ROLL FORM INSULATION TO DESIGN SPRINKLER HEAD IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. ASTM C1393 STANDARD SPECIFICATION FOR PERPENDICULARLY ORIENTED PROVIDE FIRE PROTECTION SIGN OFF LETTER STAMPED BY SPRINKLER FIBER ROLL AND SHEET THERMAL INSULATION FOR PIPES AND TANKS WITH A ENGINEER OF RECORD STATING THAT INSTALLATION IS IN ACCORDANCE WITH FACTORY APPLIED VAPOUR BARRIER FACING CONSISTING OF CUT STRIPS OF ALL REQUIRED CODES APPLICABLE TO THE INSTALLATION. RIGID MINERAL BOARD INSULATION GLUED TO AN ALUMINUM FOIL AND KRAFT SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATION COMPLETE WITH PAPER FACING ACCEPTABLE TO MULTI-GLASS INSULATION LTD MULTI-FLEX SPRINKLER ENGINEER'S STAMP TO CONSULTANT AND ALL AUTHORITIES FOR MKF, GLASS-CELL FABRICATORS LTD. R-FLEX, OWNS CORNING PIPE AND TANK REVIEW. SHOP DRAWINGS SHALL INCLUDE ALL SPRINKLER HEADS, INSULATION, JOHNS MANVILLE INC PIPE AND TANK INSULATION MECHANICAL GROOVED COUPLINGS, VALVES, SENSORS, FIRE HOSE CABINETS, FOR CONCEALED RECTANGULAR OR OVAL DUCTS PROVIDE BLANKET TYPE FIRE EXTINGUISHERS AND ALL OTHER EQUIPMENT INCLUDED IN FIRE ROLL FORM INSULATION TO ASTM STANDARD C553 STANDARD SPECIFICATION PROTECTION SCOPE OF WORK. FOR MINERAL FIBRE BLANKET THERMAL INSULATION 24 KG/M<sup>3</sup> (1-1/2 LB./FT<sup>3</sup>) VERIFY AVAILABLE WATER FLOW AND PRESSURE OF SYSTEM. INCLUDE FOR DENSITY WITH A FACTORY APPLIED VAPOUR BARRIER FACING EQUAL TO MUNICIPAL MAIN WATER FLOW AND PRESSURE TESTS AT NEAREST FIRE KNAUF FIBER GLASS BLANKET INSULATION AND MULTI-PURPOSE FSK FACING, HYDRANT. PROVIDE TEST RESULTS AS PART OF SHOP DRAWINGS PROCESS. MANSON INSULATION INC ALLEY WRAP FSK, JOHNS MANVILLE INC DUCT WRAP ALL SPRINKLER SYSTEM COMPONENTS SHALL BE ULC LISTED AND FM TYPE 150 MICROLITE OR ISOFAB FACED FLEXIBLE FSK INSULATION. APPROVED, SUITABLE FOR FIRE PROTECTION SYSTEMS. ALL SYSTEM PIPES, FOR DUCTS AND PIPES INSTALLED OUTSIDE OF THE BUILDING PROVIDE SHEET VALVES, FITTINGS, JOINTS, DEVICES, AND ACCESSORIES SHALL BE SUITABLE OR ROLL FORM CFC FREE CLOSED CELL SELF-ADHERING ELASTOMERIC EPDM FOR THE MAXIMUM SYSTEM THEY WILL BE SUBJECTED TO INCLUDING A 25% RUBBER INSULATION IN ACCORDANCE WITH REQUIREMENTS ASTM C534. STANDARD SPECIFICATION FOR PERFORMED FLEXIBLE ELASTOMERIC SPRINKLER PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK CARBON CELLULAR THERMAL INSULATION IN SHEET AND TUBULAR FORM WITH ALL STEEL, ASTM A53, GRADE B, COMPLETE WITH CLASS 125 CAST IRON SCREWED REQUIRED INSTALLATION ACCESSORIES EQUAL TO ARMACELL AP/ARMAFLEX FITTINGS TO ANSI/ASME B16.4. SA AND WRAPPED IN ALUMINUM SHEETING WITH ALUMINUM BANDING WITH ALL IN LIEU OF THE ABOVE, PROVIDE VICTAULIC FIRELOCK FITTINGS AND JOINTS SEALED WITH WEATHERPROOF SEALANT. VICTAULIC STYLE 005 RIGID COUPLING JOINTS. MECHANICAL GROOVED PROVIDE THE FOLLOWING INSULATION THICKNESS: COUPLINGS BY ANOTHER MANUFACTURER ARE NOT ACCEPTABLE. 3.5.1 OUTDOOR AIR INTAKE DUCTS, CASINGS, PLENUMS UP TO MIXING BOXES OR ALL SPRINKLER PIPING SHALL BE RIGID METAL PIPING. NO FLEXIBLE PIPING OR COILS - 1-1/2" (40MM) PLASTIC PIPING WILL BE ALLOWED. NO FLEXIBLE HEADS WILL BE ALLOWED. 3.5.2 PRE-TREATED OUTDOOR AIR DUCTS, CASINGS, PLENUMS - 1-1/2 (40MM) 1.13 ALL SPRINKLER FITTINGS AND JOINTS SHALL BE APPROVED FOR THE MAXIMUM 3.5.3 SUPPLY AIR DUCTS - 1" (25MM) SYSTEM PRESSURE THEY WILL BE SUBJECTED TO WITH A 25% FACTOR OF 3.5.4 FINAL 10 FEET OF EXHAUST DUCTS WORK BEFORE BUILDING EXTERIOR - 1 ALL SPRINKLER VALVES SHALL BE PROVIDED BY A SINGLE MANUFACTURER. 1.14 3.5.5 EXPOSED DUCTWORK IN AREAS WHICH IT IS NOT SERVING - 1" (25MM) VALVES SHALL BE INSTALLED SUCH THAT THE MANUFACTURERS NAME, 3.5.6 DUCTWORK OUTSIDE OF BUILDING - 2" (50MM) WITH ALUMINUM JACKETING PRESSURE RATING, LISTING, SHALL BE VISIBLE. SHUT-OFF VALVES SHALL BE A MINIMUM OF 1205KP (175PSI) RATED FULL PORT 3.5.7 BLANK-OFF PANELS ON EXTERIOR LOUVERS - 3" (50MM) 1.15 BRONZE BODY SCREWED BALL VALVE AND LUG BODY OR GROOVED END TYPE DUCTWORK EXPOSED WITHIN THE SPACE IT SERVES DOES NOT REQUIRE EXTERNAL INSULATION. BUTTERFLY VALVES. CHECK VALVES SHALL BE A MINIMUM OF 1205 KPA (175PSI) RESILIENT SEAT 1.16 DUCTWORK LINED WITH ACOUSTIC INSULATION CAN SUBTRACT THE CHECK VALVE TAPPED FOR SITE INSTALLATION OF A 20MM (3/4") DIAMETER THICKNESS OF ACOUSTIC INSULATION FROM THE REQUIRED EXTERNAL INSULATION TO DETERMINE FINAL EXTERNAL INSULATION. INSULATION SHALL BE APPLIED DIRECTLY TO THE DUCT AND NOT AROUND 1.17 BALL DRIPS SHALL BE EQUAL TO NATIONAL FIRE EQUIPMENT LTD 3/4" HANGERS AND SUPPORTS. PROVIDE RIGID BOARD INSULATION BELOW DIAMETER AUTOMATIC BALL DRIP. HANGERS WITH ALUMINUM SADDLE WEAR PLATE BETWEEN INSULATION AND ALL SHUT OFF VALVES SHALL BE COMPLETE WITH TAMPER-PROOF PAD LOCKS TO ALLOW VALVES TO BE LOCKED IN THE OPEN POSITION.

MECHANICAL SPECIFICATION - INSULATION

SPECIFICATIONS.

3.18

PENETRATIONS TO SUIT.

INSTALL ALL INSULATION IN ACCORDANCE WITH MANUFACTURER

AND FLOOR OPENINGS. SUPPLY SOUND PROOF AND FIRE PROOF

MECHANICAL SPECIFICATION - FIRE PROTECTION WHERE VICTAULIC SYSTEMS ARE USED, PROVIDE VICTAULIC FIRE PROTECTION ALL INSULATION SHALL BE CONTINUOUS AND BE EXTENDED THROUGH WALL PROVIDE ULC LISTED AND LABELED CLA-VAL PRESSURE REDUCING STATIONS WHERE REQUIRED COMPLETE WITH PRESSURE REDUCING RELIEF VALVE PIPES TO SUITABLE DRAIN, SUPERVISED ISOLATION VALVES, STRAINER. PRESSURE GAUGES, CAST IRON BODY AND BRONZE TRIM WHERE SHOWN ON INSULATION APPLIED IN TWO LAYERS SHALL HAVE JOINTS STAGGERED. THESE DRAWINGS. SELECT PRESSURE REDUCING VALVES TO SUIT UPSTREAM INSULATE OVER FLANGES WITH INSULATION TO MATCH PIPE INSULATION AND DOWNSTREAM DESIGN PRESSURES. THICKNESS AND OUTSIDE DIAMETER OF FLANGE/COUPLING. FILL THE VOID PROVIDE MINIMUM 1205KPA (175PSI) RATED DUAL TORSION THERMOPLASTIC AND STAINLESS STEEL SPRING CHECK VALVE BACKFLOW PREVENTER ASSEMBLY WITH REPLACEABLE SEATS LISTED TO CAN/CSA B64, COMPLETE WITH STAINLESS STEEL BODY, TOP ACCESS COVER, OSY SUPERVISED INLET AND OUTLET SHUT-OFF VALVES AND BY-PASS WATER METER WITH TEST COCKS AND BY-PASS DOUBLE CHECK VALVES. SPRINKLER HEADS SHALL BE MANUFACTURED BY TYCO, VICTAULIC, VIKING OR RELIABLE. SUBMIT SAMPLES OF EACH STYLE OF SPRINKLER HEAD. 1.22.1 SIDEWALL SPRINKLER HEADS SHALL BRONZE OR CHROME PLATED HEADS LISTED FOR SIDEWALL APPLICATION. 1.22.2 UNLESS OTHERWISE SPECIFIED USE SPRINKLER HEADS LISTED TO 74C (165F) RATED HEADS. WHERE SPRINKLER HEADS ARE SUBJECT TO HIGHER TEMPERATURES, PROVIDE PRESSURE REQUIREMENTS AS REQUIRED TO SUIT APPLICATION. 1.22.3 FLEXIBLE SPRINKLER HEADS WILL NOT BE ALLOWED. INSTALL SPRINKLER SYSTEM AS HIGH AS POSSIBLE AND COORDINATE INSTALLATION WITH ALL OTHER TRADES. SLOPE ALL HORIZONTAL SPRINKLER PIPING SO THAT IT CAN BE EASILY AND COMPLETELY DRAINED. PROVIDE CAPPED DRAINS AT ALL LOW POINTS. COORDINATE REQUIREMENT OF SPRINKLER SYSTEM FIRE ALARM CONNECTION WITH ELECTRICAL DIVISION AND FIRE ALARM CONTRACTOR. MECHANICAL CONTRACTOR SHALL TAKE LEAD ROLE IN COORDINATED ALL SUCH WORK. NO SPRINKLER WORK SHALL BE CONCEALED UNTIL SUCH TIME AS IT HAS BEEN APPROVED BY THE ENGINEER OF RECORD AND THE AUTHORITY HAVING TEST ALL SPRINKLER SYSTEMS TO NFPA 13 REQUIREMENTS. TEST ALL SYSTEM IN ACCORDANCE WITH OFC, LOCAL FIRE MARSHAL AND BUILDING OFFICIALS REQUIREMENTS. INSTALL ALL TEST AND DRAIN CONNECTION IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. PIPE DRAIN TO NEAREST BUILDING SANITARY DRAINAGE SYSTEMS. DO NOT DRAIN TO OUTDOORS. PROVIDE GUARDS FOR SPRINKLER HEAD IN AREAS SUBJECT TO DAMAGE INCLUDING, BUT NOT LIMITED TO, ELEVATOR MACHINE ROOMS, STORAGE ROOMS, ELEVATOR SHAFTS, GARBAGE ROOMS, MECHANICAL ROOMS, LOW HEAD ROOM LOCATION, AND ANY OTHER LOCATION WHERE SPRINKLER HEAD COULD BE DAMAGED PROVIDE PROTECTION OF SPRINKLER HEADS FOR FULL DURATION OF 1.31 CONSTRUCTION. REPLACE AT NO ADDITIONAL COST ANY SPRINKLER HEAD THAT IS DAMAGED, ALTERED, PAINTED, OR OTHERWISE AFFECTED. PROVIDE NFPA SIGN-OFF LETTER AT THE COMPLETION OF PROJECT. LETTER SHALL BE STAMPED BY CONTRACTORS SPRINKLER ENGINEER. REMOVE AND REPAIR/REPLACE ANY SYSTEM COMPONENT WHICH DOES NOT PASS INSPECTION/TESTING. REMOVE AND REINSTALL ANY SPRINKLER COMPONENT NOT SUITABLE FOR PROVIDE AS BUILT DRAWINGS IN CAD AND PDF FORMAT AT THE COMPLETION INSTALL ALL BACKFLOW PREVENTERS AS REQUIRED BY CODE WITH PIPED DRAINS TO NEAREST BUILDING SANITARY DRAINAGE SYSTEM. ALL ISOLATION VALVES ON BACKFLOW PREVENTERS SHALL BE SUPERVISED. INSTALL BACKFLOW PREVENTERS TO ENSURE THEIR LISTING, MANUFACTURER NAME AND MODEL NUMBER AND FLOW DIRECTION ARROW ARE VISIBLE. 

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> 2023-08-01 ISSUED FOR ADD M2 2023-07-14 ISSUED FOR TENDER AND PERMIT 2023-06-16 ISSUED FOR PERMIT 2023-04-12 ISSUED FOR COORDINATION

> > RIO+CAN

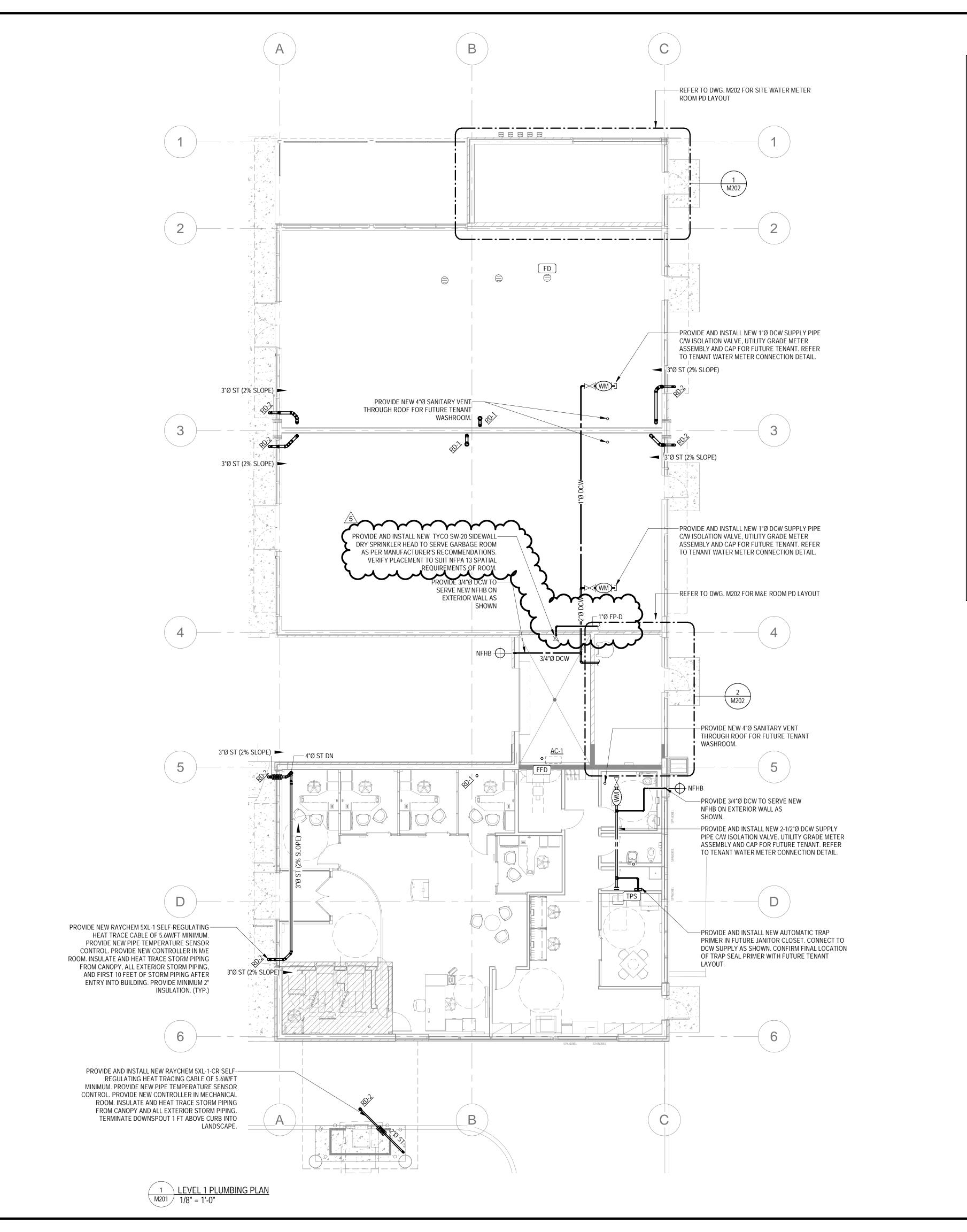
WINDFIELDS FARMS - BLOCK C2, PROPOSED BUILDING C5

WINCHESTER ROAD & SIMCOE STREET, OSHAWA

MECHANICAL SPECIFICATIONS

22-000-176 PROJECT DATE

Issue Date CHECKED BY



### PLUMBING SHEET NOTES

- PROVIDE ALL VENTING OF SYSTEMS TO MEET OBC PART 7 REQUIREMENTS, WHETHER SHOWN OR NOT.
- ALL TRAP MUST BE PRIMED IN ACCORDANCE WITH OBC PART 7.
- INSTALL PLUMBING SYSTEMS AS HIGH AS POSSIBLE. COORDINATE INSTALLATION WITH STRUCTURE, ARCHITECTURE, ELECTRICAL AND OTHER MECHANICAL SERVICES PRIOR TO BEGINNING INSTALLATION. INSTALL ALL PIPING ANIN STRAIGHT RUNS PARALLEL OR PERPENDICULAR TO BUILDING LINES UNLESS NOTED OTHERWISE.
- UNDER NO CIRCUMSTANCES INSTALL ANY OVERHEAD PIPE, HANGER OR MECHANICAL EQUIPMENT LOWER THAN 2100MM (6' 10") AFF.
- PROVIDE ALL REQUIRED CLEANOUTS IN DRAINAGE SYSTEMS IN ACCORDANCE WITH OBC PART 7, INCLUDING EVERY 6M (20') FOR SINK DRAIN LINES, EVERY 15M (50') FOR PIPE 100ø AND SMALLER, AND EVERY 30M (100') FOR LARGER PIPE HORIZONTALLY, AND AT EVERY CHANGE IN DIRECTION OF 135 DEGREES, WHETHER SHOWN OR NOT. CLEANOUTS INSTALLED WITHIN VERTICAL LEADERS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS TO ENSURE THE CLEANOUT IS ON THE CORRECT SIDE OF ANY ENCLOSURES. PROVIDE ACCESS PANELS TO ACCESS ALL CLEANOUTS BEHIND ARCHITECTURAL ENCLOSURES.
- CLEANOUTS INSTALLED WITHIN VERTICAL LEADERS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS TO ENSURE THE CLEANOUT IS ON THE CORRECT SIDE OF ANY ENCLOSURES. PROVIDE ACCESS PANELS TO ACCESS ALL CLEANOUTS BEHIND ARCHITECTURAL ENCLOSURES. CLEANOUTS IN VERTICAL STACKS SERVING CIBC TENANT SPACE TO BE 16" AFF.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF ALL PLUMBING FIXTURES. COORDINATE FIXTURE ROUGH-IN DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND PLUMBING FIXTURE SHOP DRAWINGS.
- UNLESS NOTED OTHERWISE, SLOPE DRAINAGE PIPES 75MM (3") AND SMALLER AT MIN. 2%; HORIZONTAL OFFSETS LESS THAN 6M (20') CONNECTING ROOF DRAINS TO RAIN LEADERS AT MIN. 2%; AND ALL OTHER DRAINAGE PIPES AT MIN. 1%.
- ALL SANITARY BRANCHES TO BE MINIMUM 100MM (4") UNLESS NOTED OTHERWISE.
- D. PROVIDE ISOLATION VALVES WHERE REQUIRED FOR SERVICING, UPSTREAM AND DOWNSTREAM AT ALL EQUIPMENT, AT CONNECTIONS TO RISERS AND WHERE INDICATED ON THE PLANS.
- MAKE PENETRATIONS THROUGH FLOORS WATERTIGHT IN WASHROOMS, JANITOR'S CLOSETS, MECHANICAL ROOMS, AND THROUGH CEILINGS OF ELECTRICAL ROOMS.
- . INSTALL VALVES AND ACCESSORIES TO BE READILY ACCESSIBLE; PROVIDE ACCESS PANELS TO SUIT FINISH OF WALL OR CEILING WHERE REQUIRED. ACCESS DOORS IN FIRE RATED ASSEMBLIES SHALL BE ULC LISTED TO MATCH ASSEMBLY RATING.
- B. ALL PIPING THAT PENETRATES AN ARCHITECTURAL FIRE SEPARATION IS TO BE FULLY FIRE STOPPED WITH UL-LISTED FIRE STOP ASSEMBLIES COMPLYING FULLY WITH SPECIFICATION AND AHJ REQUIREMENTS.
- 4. COORDINATE WITH THE GENERAL CONTRACTOR TO VERIFY THAT ALL REQUIRED MECHANICAL OPENINGS SHOWN ON THE DRAWINGS AND/OR REQUIRED BY THE SPECIFICATIONS ARE PROVIDED IN PRECAST BUILDING ELEMENTS AT THE SHOP DRAWING STAGE. REVIEW PRECAST SHOP DRAWING TO VERIFY.

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5 2023-08-01 ISSUED FOR ADD M2
4 2023-07-27 ISSUED FOR ADD M1
3 2023-07-14 ISSUED FOR TENDER AND PERMIT
2 2023-06-16 ISSUED FOR PERMIT
1 2023-04-12 ISSUED FOR COORDINATION
# DATE DESCRIPTION

RIO+CAN

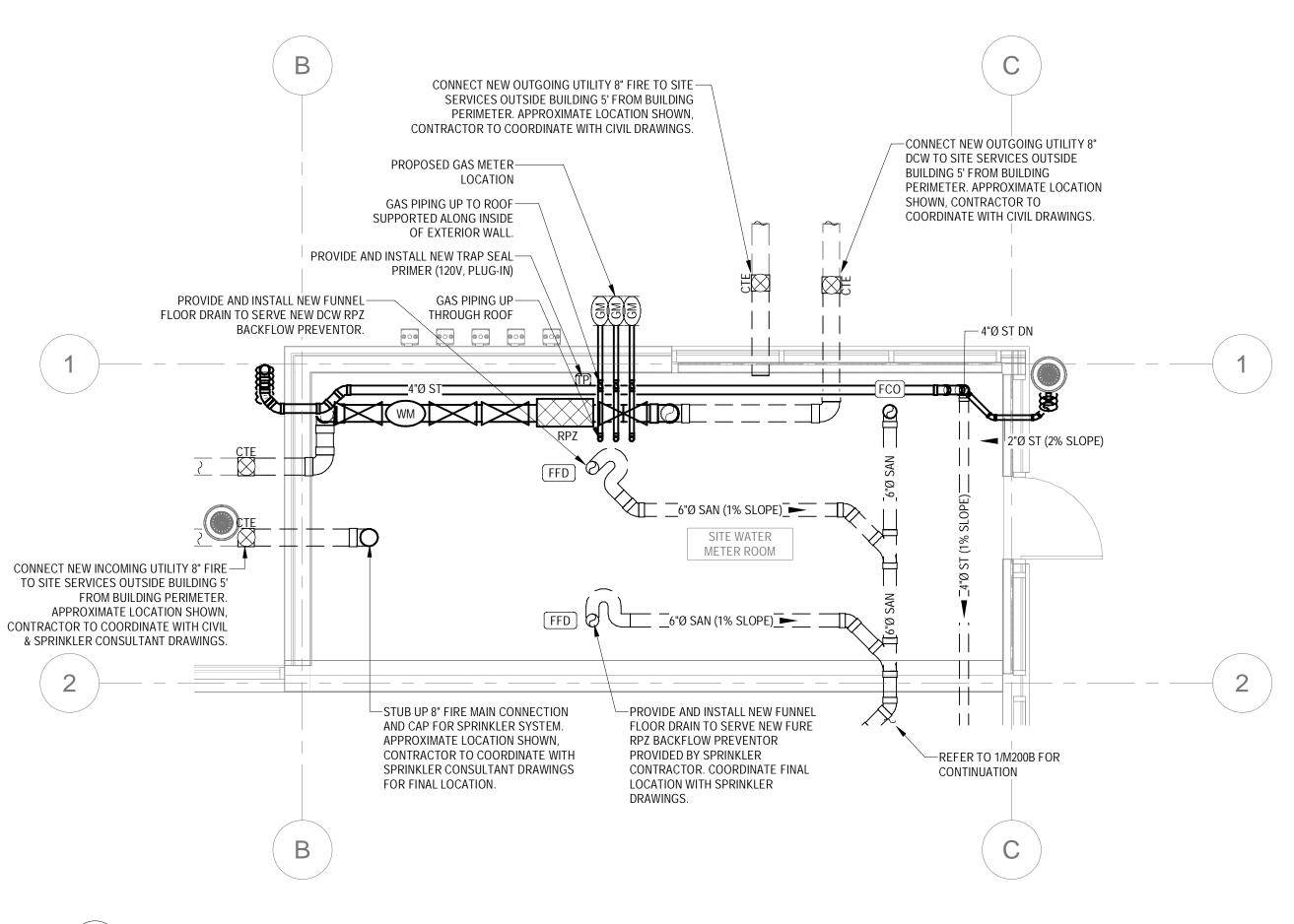
## WINDFIELDS FARMS - BLOCK C2, PROPOSED BUILDING C5

WINCHESTER ROAD & SIMCOE STREET, OSHAWA

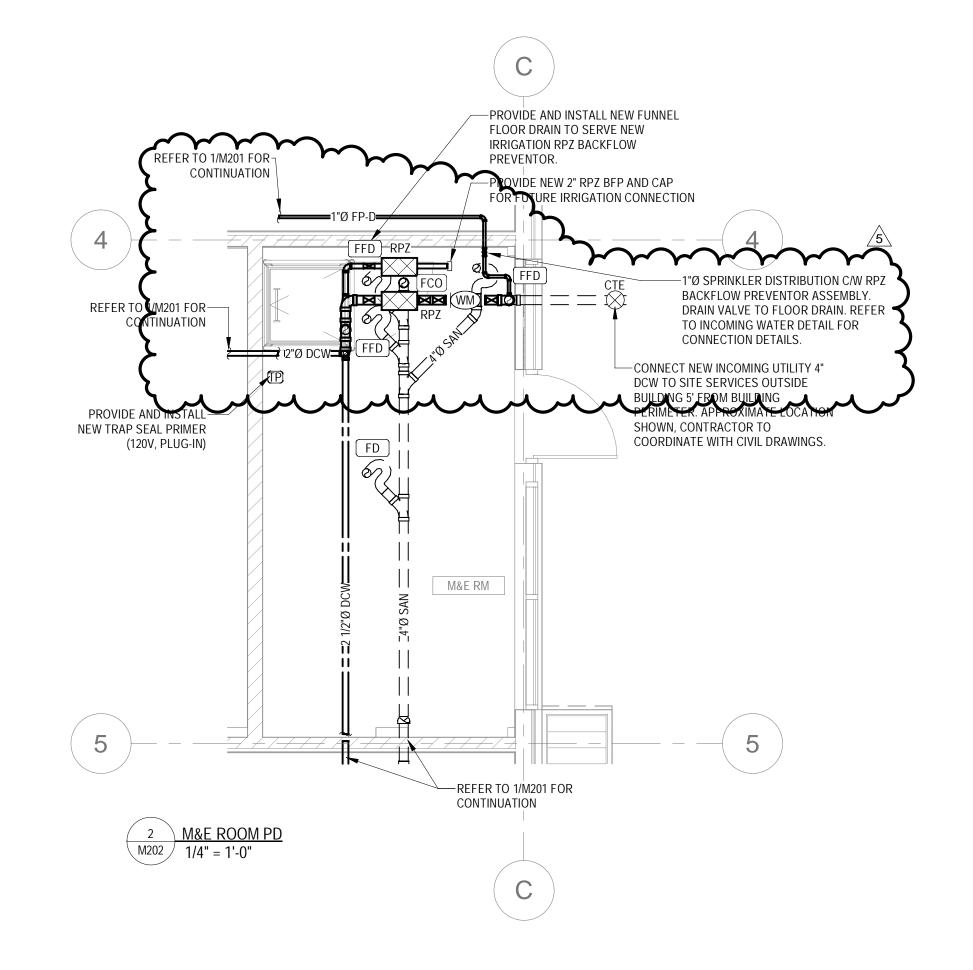
**LEVEL 1 PLUMBING PLAN** 

22-000-176 PROJECT DATE Issue Date CHECKED BY R.R. 1/8" = 1'-0"

M201



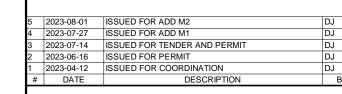
SITE WATER METER ROOM PD M202 1/4" = 1'-0"



# PLUMBING SHEET NOTES

- PROVIDE ALL VENTING OF SYSTEMS TO MEET OBC PART 7 REQUIREMENTS,
   WHETHER SHOWN OR NOT.
- 2. ALL TRAP MUST BE PRIMED IN ACCORDANCE WITH OBC PART 7.
- 3. INSTALL PLUMBING SYSTEMS AS HIGH AS POSSIBLE. COORDINATE INSTALLATION WITH STRUCTURE, ARCHITECTURE, ELECTRICAL AND OTHER MECHANICAL SERVICES PRIOR TO BEGINNING INSTALLATION. INSTALL ALL PIPING ANIN STRAIGHT RUNS PARALLEL OR PERPENDICULAR TO BUILDING LINES UNLESS NOTED OTHERWISE.
- 4. UNDER NO CIRCUMSTANCES INSTALL ANY OVERHEAD PIPE, HANGER OR MECHANICAL EQUIPMENT LOWER THAN 2100MM (6' 10") AFF.
- 5. PROVIDE ALL REQUIRED CLEANOUTS IN DRAINAGE SYSTEMS IN ACCORDANCE WITH OBC PART 7, INCLUDING EVERY 6M (20') FOR SINK DRAIN LINES, EVERY 15M (50') FOR PIPE 100Ø AND SMALLER, AND EVERY 30M (100') FOR LARGER PIPE HORIZONTALLY, AND AT EVERY CHANGE IN DIRECTION OF 135 DEGREES, WHETHER SHOWN OR NOT. CLEANOUTS INSTALLED WITHIN VERTICAL LEADERS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS TO ENSURE THE CLEANOUT IS ON THE CORRECT SIDE OF ANY ENCLOSURES. PROVIDE ACCESS PANELS TO ACCESS ALL CLEANOUTS BEHIND ARCHITECTURAL ENCLOSURES.
- CLEANOUTS INSTALLED WITHIN VERTICAL LEADERS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS TO ENSURE THE CLEANOUT IS ON THE CORRECT SIDE OF ANY ENCLOSURES. PROVIDE ACCESS PANELS TO ACCESS ALL CLEANOUTS BEHIND ARCHITECTURAL ENCLOSURES.
- 7. UNLESS NOTED OTHERWISE, SLOPE DRAINAGE PIPES 75MM (3") AND SMALLER AT MIN. 2%; HORIZONTAL OFFSETS LESS THAN 6M (20') CONNECTING ROOF DRAINS TO RAIN LEADERS AT MIN. 2%; AND ALL OTHER DRAINAGE PIPES AT MIN. 1%.
- B. ALL SANITARY BRANCHES TO BE MINIMUM 100MM (4") UNLESS NOTED OTHERWISE.
- PROVIDE ISOLATION VALVES WHERE REQUIRED FOR SERVICING, UPSTREAM AND DOWNSTREAM AT ALL EQUIPMENT, AT CONNECTIONS TO RISERS AND WHERE INDICATED ON THE PLANS.
- 10. MAKE PENETRATIONS THROUGH FLOORS WATERTIGHT IN WASHROOMS, JANITOR'S CLOSETS, MECHANICAL ROOMS, AND THROUGH CEILINGS OF ELECTRICAL ROOMS.
- 1. INSTALL VALVES AND ACCESSORIES TO BE READILY ACCESSIBLE; PROVIDE ACCESS PANELS TO SUIT FINISH OF WALL OR CEILING WHERE REQUIRED. ACCESS DOORS IN FIRE RATED ASSEMBLIES SHALL BE ULC LISTED TO MATCH ASSEMBLY RATING.
- 12. ALL PIPING THAT PENETRATES AN ARCHITECTURAL FIRE SEPARATION IS TO BE FULLY FIRE STOPPED WITH UL-LISTED FIRE STOP ASSEMBLIES COMPLYING FULLY WITH SPECIFICATION AND AHJ REQUIREMENTS.
- 13. COORDINATE WITH THE GENERAL CONTRACTOR TO VERIFY THAT ALL REQUIRED MECHANICAL OPENINGS SHOWN ON THE DRAWINGS AND/OR REQUIRED BY THE SPECIFICATIONS ARE PROVIDED IN PRECAST BUILDING ELEMENTS AT THE SHOP DRAWING STAGE. REVIEW PRECAST SHOP DRAWING TO VERIFY.







# WINDFIELDS FARMS - BLOCK C2, PROPOSED BUILDING C5

WINCHESTER ROAD & SIMCOE STREET, OSHAWA, ONTARIO

DRAWING

SITE WATER METER ROOM & UTILITY ROOM ENLARGED VIEW - PD

PROJECT NO.
22-000-176

PROJECT DATE
ISSUE Date

DRAWN BY
Author

CHECKED BY
Checker

SCALE
As indicated

M202

/2023 5.00·23 D



#### **ELECTRICAL ADDENDUM**

**Project Name:** Winfield Farm Block C **Issued Date:** August 1, 2023

Project Address: WINCHESTER ROAD & SIMCOE E ADD No.: 2

STREET OSHAWA, ONTARIO

Issued By:Braydon KahnArchitect:Turner FleischerProject No.:22-000-176Attention:Edward Uzoma

Note: The contractor shall submit a detailed, itemized quotation of the extra/credit/no charge for the following work which shall be subject to all conditions, quality of workmanship and materials as described in the specifications for all trades for the above-mentioned project. This Proposed Change does not authorize the contractor to proceed with the work or order any materials, unless instructed by the Owner or by the Consultant. This Proposed Change does not in any way relieve the contractor of the responsibility to meet the Tender project schedule.

#### **Description:**

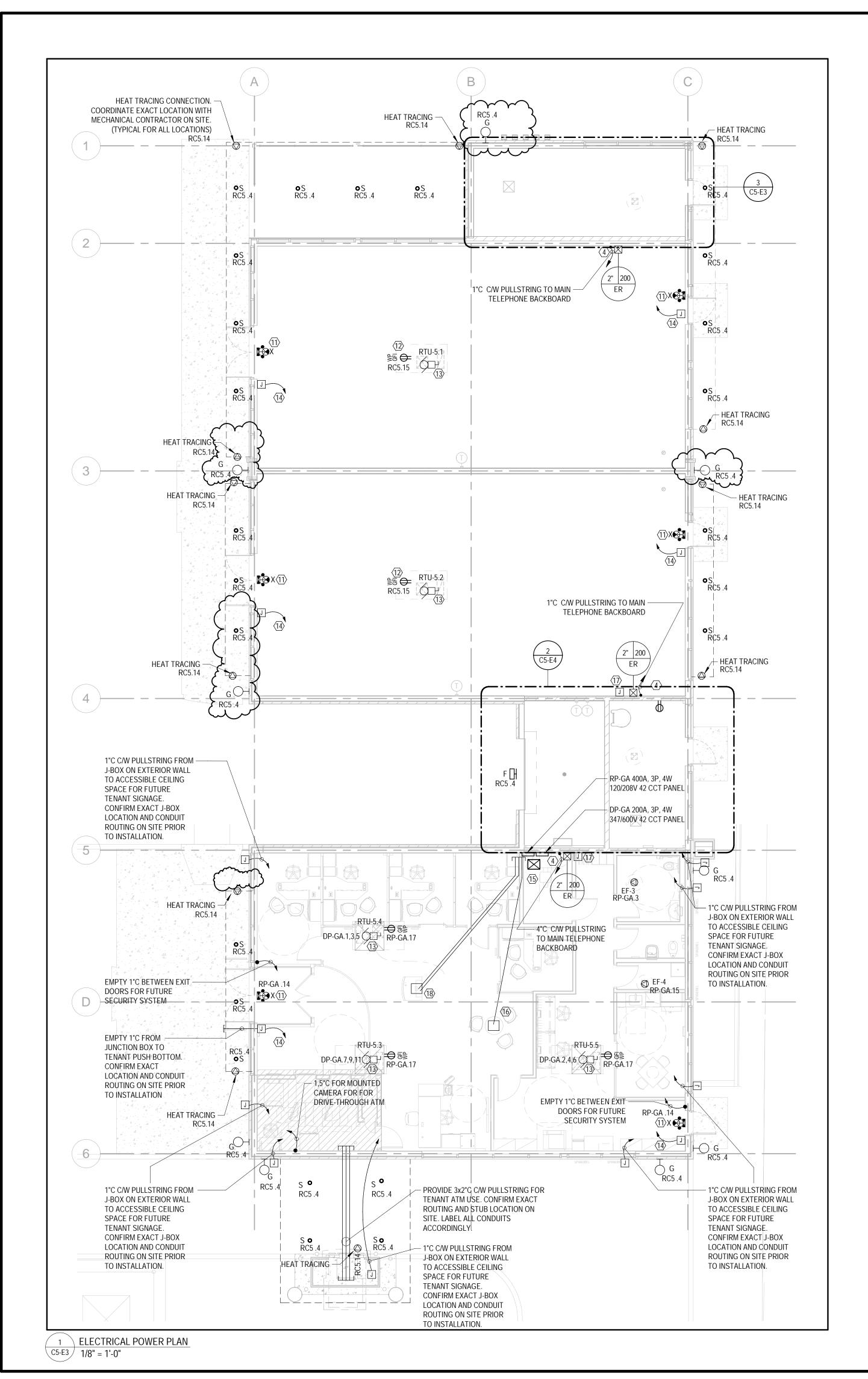
#### 1. Drawing #ES2 (Re-Issued)

1.1. Building lighting quantity and location revised.

#### **Reason for Change:**

Updates based on architectural revisions.

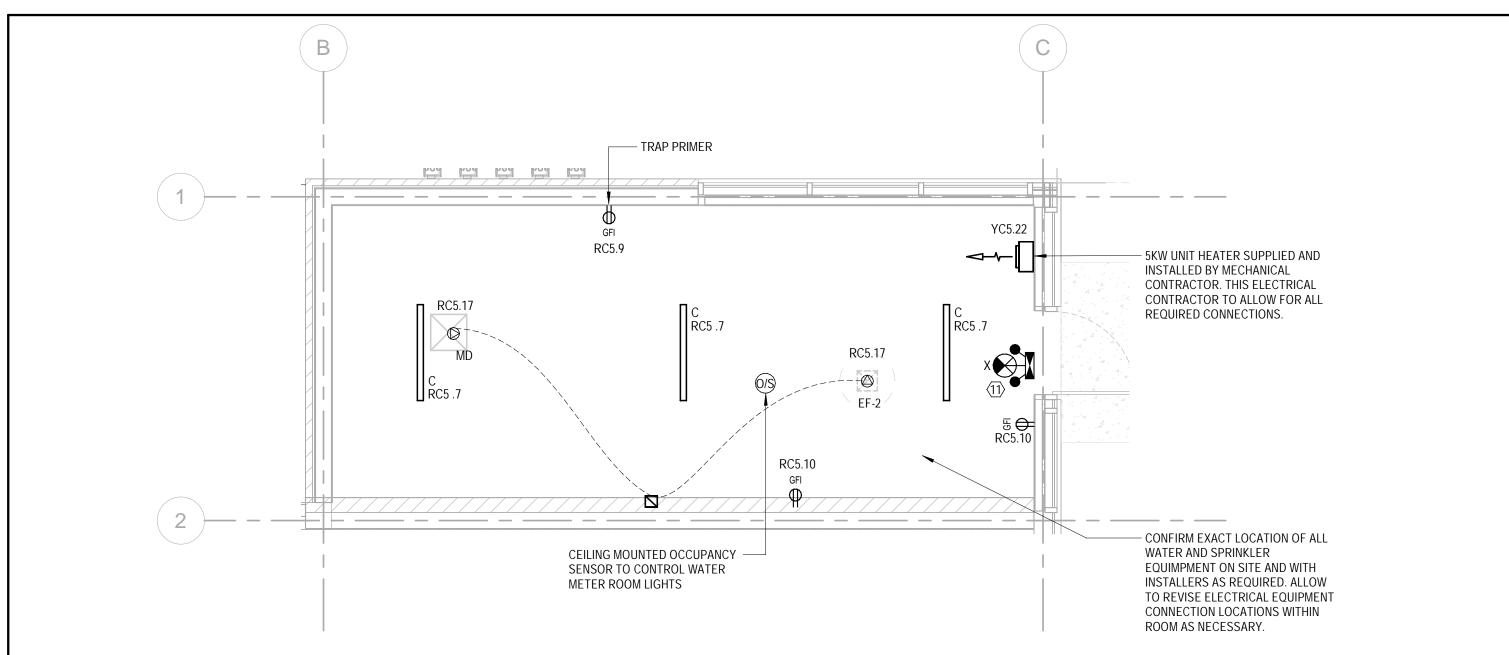
End of Addendum #E2



- 1 ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION /QUANTITIES/ HEIGHT OF ALL MORALITY/POT LIGHTINGS AND SIGNAGES PRIOR TO ROUGH-IN.
- (7) FASTENERS AND SUPPORT FOR ELECTRICAL SYSTEMS SHALL NOT BE ATTACHED TO THE ROOF DECK. THIS IS CONFLICTING WITH THE ELECTRICAL GUIDANCE FOR SUPPORTING SYSTEMS. ELECTRICAL CONTRACTOR TO COORDINATE ON SITE AND OBTAIN APPROVAL AND DIRECTION FROM GENERAL CONTRACTOR, ROOFING COMPANY AND STRUCTURAL ENGINEER FOR ALL PROPOSED CONDUIT AND MOUNTING INSTALLATIONS TO AND WITHIN DECK STRUCTURE, PRIOR TO COMMENCING ANY WORK ON SITE.
- (3) ADDITIONAL EXIT LIGHTS IN TENANT SPACES ARE THE RESPONSIBILITIES OF THE TENANT TO SUPPLY AND INSTALL TO CODE REQUIREMENTS DURING INTERIOR FIT-UP.
- (4) CONFIRM EACH TENANT SERVICE LOCATION PRIOR TO INSTALLATION.
- ADDITIONAL EMERGENCY LIGHTING SYSTEM INSTALLATIONS UNLESS NOTED OTHERWISE, SHALL BE BY INDIVIDUAL TENANT TO MEET CODE REQUIREMENTS.
- $\langle \overline{6} \rangle$  ALL DISTRIBUTION AND PANEL BOARDS TO BE SPRINKLER PROOF.
- $\langle 7 \rangle$  ALL DUCTS AND TENANT CONDUITS TO BE C/W PULL ROPES.
- (8) ALL SERVICES TO BE RUN OVERHEAD, UNLESS NOTED OTHERWISE.
- (9) NO LIGHTING TO BE HUNG DIRECTLY FROM ROOF DECK. PROVIDE UNISTRUT SUPPORTS TO STRUCTURAL ENGINEERING REQUIREMENTS AND APPROVAL.

- (10) ELECTRICAL CONTRACTOR TO PROVIDE ITEMISED PRICE TO SUPPLY AND INSTALL EACH INDIVIDUAL TENANT SPLITTER AND HVAC, DISCONNECT SWITCH C/W ALL NECESSARY WIRING AND CONNECTIONS.
- EMERGENCY LIGHT AND EXIT SIGN COMBO PACK AND TENANT FRONT AND BACK DOORS ARE TO BE CONNECTED

  TO FACULTE MANY OR LITTER AND EXIT SIGN COMBO PACK AND TENANT FRONT AND BACK DOORS ARE TO BE CONNECTED
- TO EACH TENANT SPLITTER/PANEL. (12) 20A-WP/GFI RECEPTACLE C/W WET LOCATION, WHILE-IN USE COVERPLATE "INTERMATIC WP-1000C" OR APPROVED EQUAL. PROVIDE 2#10-1/2"C FROM EACH RECEPTACLE TO LANDLORD 120V HOUSE PANEL. TYPICAL FOR EACH
- RTU TO BE CONNECTED TO TENANT SPLITTER/PANEL. REFER TO SINGLE LINE DIAGRAM AND HVAC UNIT SCHEDULE
- (14) J-BOX FOR HANDICAPPED AUTO DOORS MOUNTED AT TENANT SERVICE AREA C/W DROP CONDUIT(S) AND COILED WIRING TO DOOR MULLION. COORDINATE WITH DOOR HARDWARE CONTRACTOR FOR EXACT LOCATION OF CONDUIT DROPS. CONNECTION AT DOOR AND WIRING TO TENANT SERVICE AREA BY THIS CONTRACTOR. CONNECTION AT PANEL BY TENANT CONTRACTOR. (TYPICAL FOR ALL J-BOX AT STORE ENTRANCE UNLESS OTHERWISE NOTED
- (15) APPROXIMATE LOCATION OF 75kVA TRANSFORMER MOUNTED AT HIGH LEVEL C/W ALL REQUIRED SUPPORTS. CONFIRM EXACT MOUNTING LOCATION WITH STRUCTURAL DRAWINGS PRIOR TO INSTALLATION.
- (16) 1X1"C C/W PULLSTRING FROM CUT-OUT LOCATION STUB 6" ABOVE THE SLAB FOR FUTURE TENANT USE. CONFIRM EXACT ROUGH-IN LOCATION WITH TENANT FIT-UP PLANS PRIOR TO INSTALLATION. PROVIDE 24"X24" BOX-OUT AT FLOOR FOR FUTURE TENANT USE
- J-BOX AT HIGH LEVEL C/W 3 POLE 20A CONTRACTOR FOR FUTURE TENANT SIGNAGE CONNECTIONS. ENSURE J-BOX
- (18) 2X1"C C/W PULLSTRING FROM CUT-OUT LOCATION STUB 6" ABOVE THE SLAB FOR FUTURE TENANT USE. CONFIRM EXACT ROUGH-IN LOCATION WITH TENANT FIT-UP PLANS PRIOR TO INSTALLATION. PROVIDE 24"X24" BOX-OUT AT FLOOR FOR FUTURE TENANT USE

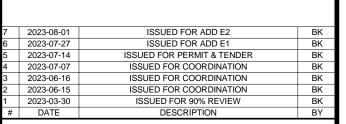


3 WATER ROOM DETAIL PLAN

C5-E3 1/4" = 1'-0"

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DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT; AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.





# WINDFIELDS FARMS - BLOCK C2 PROPOSED BUILDING C5

WINCHESTER ROAD & SIMCOE STREET, OSHAWA ONTARIO

**ELECTRICAL POWER PLAN** 

PROJECT NO. 22-000-176 PROJECT DATE 2023-03-06 DRAWN BY CHECKED BY SCALE As indicated

C5-E3